



**Department of  
Transportation**

# **I-81 VIADUCT PROJECT - PHASE 1, CONTRACT 2**

**PIN 3501.91, Contract D900056**

## **DB CONTRACT DOCUMENTS REQUEST FOR PROPOSALS**

### **PART 7**

### **ENGINEERING DATA (PART 4 OF 5)**

**Draft October 19, 2022**



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Bruce G. Smith 6/24/2009

D.S. Hann 7/5/11

J.W. Gonggrijp 7-9-13



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
OFFICE OF ENGINEERING

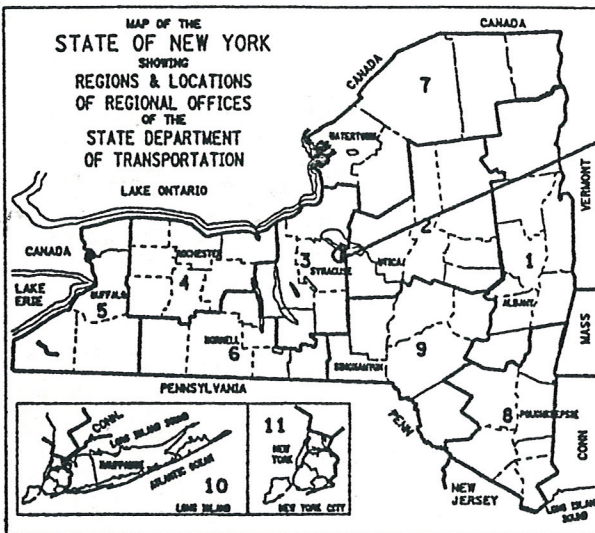
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO

VOLUME 1 OF 2

432 SHEETS      ONONDAGA      COUNTY      CONTRACT D259214

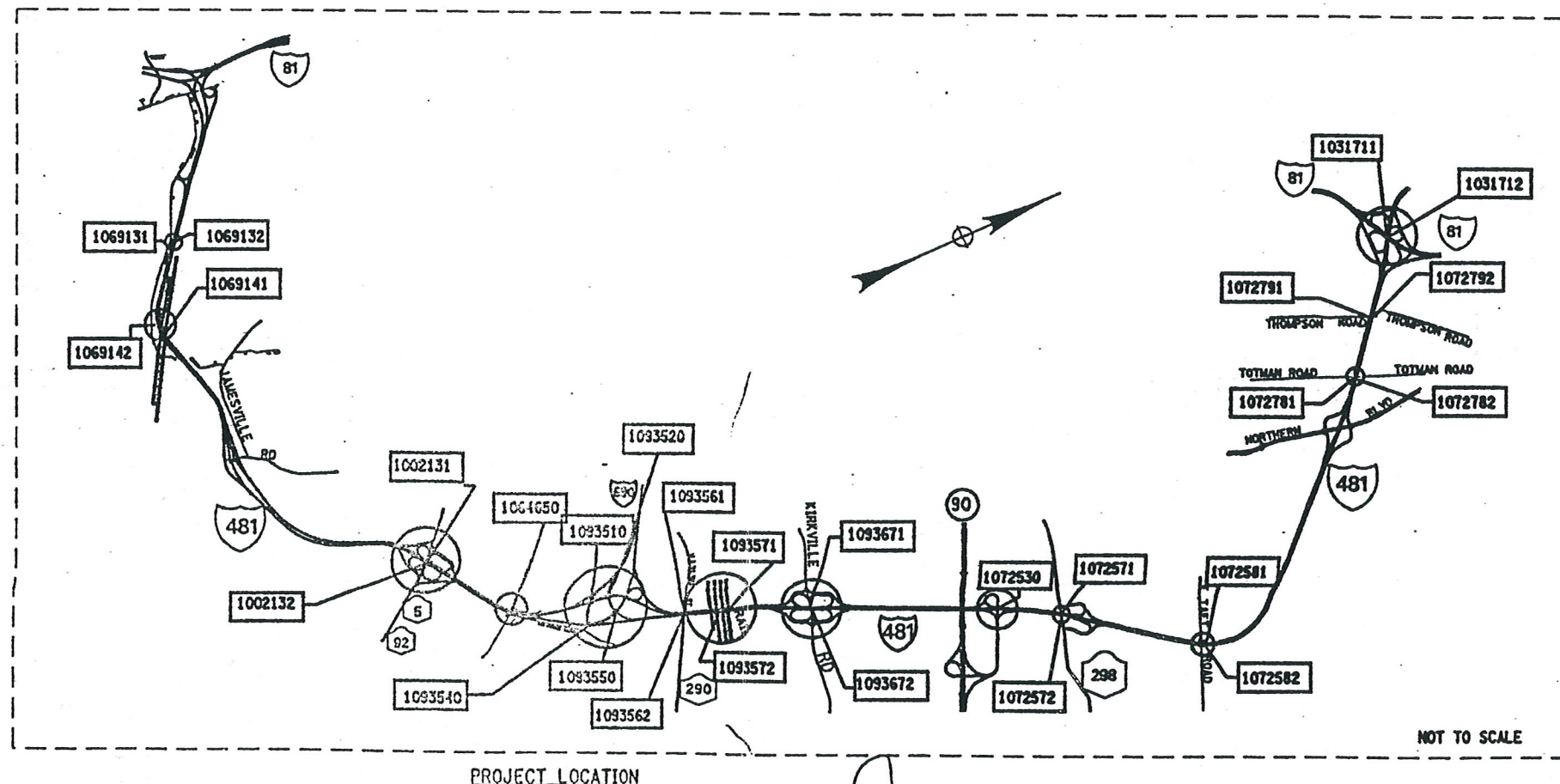
F.A. PROJECT

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (METRIC UNITS) OF JANUARY 2, 2002, AS AMENDED BY ADDENDA NOS. 1 AND 2, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.



THIS IS A BRIDGE REHABILITATION PROJECT ON VARIOUS BRIDGES ON INTERSTATE 481, LOCATED IN THE TOWNS OF CICERO AND DEWITT IN ONEONAGA COUNTY. THIS WORK CONSISTS OF BRIDGE JOINTS, BEARINGS, BRIDGE RAIL AND CONCRETE REPAIR OF SUBSTRUCTURES. THERE ARE 28 BRIDGES IN THE PROJECT BEGINNING AT REFERENCE MARKER 4811-3301-1000 SOUTH OF THE CITY OF SYRACUSE AND ENDING AT REFERENCE MARKER 4811-3301-2143. 1481 INTERCHANGE NORTH OF THE CITY.

CONTRACTOR'S NAME \_\_\_\_\_  
AWARD DATE \_\_\_\_\_  
COMPLETION DATE \_\_\_\_\_  
FINAL ACCEPTANCE DATE \_\_\_\_\_  
REGIONAL DIRECTOR \_\_\_\_\_  
ENGINEER IN CHARGE \_\_\_\_\_  
FINAL COST TOTAL \_\_\_\_\_  
FISCAL SHARE \_\_\_\_\_ COST(S) \_\_\_\_\_



**NOT TO SCALE**

BRIDGE REHAB. PROJ.- ELEMENT SPECIFIC
VARIOUS BRIDGES ON INTERSTATE 481
TOWNS OF DEWITT AND CICERO
ONONDAGA COUNTY

FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	N.Y.	1	432

FEDERAL AID PROJECT NO.	
CAPITAL PROJECT IDENTIFICATION NO.	3056.13

INDEX ON SHEET NO. 5 & 6

RECOMMENDED BY: John E. Fritz 9/04/02 REGIONAL DESIGN ENGINEER DATE

RECOMMENDED BY: Murray A. Shirley 9/4/02 REGIONAL CONSTRUCTION ENGINEER DATE

RECOMMENDED BY: Carl R. Ruff 9/04/02 REGIONAL TRANSPORTATION MAINTENANCE ENGINEER DATE

RECOMMENDED BY: Ken [Signature] 9-4-02 REGIONAL TRAFFIC ENGINEER DATE

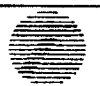
APPROVED BY: W. S. [Signature] 09-04-02 REGIONAL DIRECTOR DATE



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
DESIGNED BY

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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	5	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. ALL BINS		
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED				
AS BUILT REVISIONS				
SIGNATURE		DATE		
INTERSTATE 481 REHABILITATION PROJECT				
INDEX				
				
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION				
FILENAME	REGION	DATE	DRAWING NO.	
305613AAL2A	3	10/02	IDX-1	



CHECKED BY  
DRAWN BY  
ESTIMATED BY  
DATE

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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	6	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGE ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED			
AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 REHABILITATION PROJECT			
INDEX			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AAL2A	REGION 3	DATE 10/02	DRAWING NO. IDX-2







ESTIMATE OF QUANTITIES BY STRUCTURE																
ITEM #	DESCRIPTION	UNIT	1093550		1093561		1093562		1093571		1093572		1093671		1093672	
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
570.090004 M	ENVIRONMENTAL GROUND PROTECTION	LS	---	---	---	---	---	---	---	---	---	---	---	---	---	---
570.100001 M	ENVIRONMENTAL WATERWAY PROTECTION	LS	---	---	---	---	---	---	NEC	---	---	---	---	---	---	---
570.100002 M	ENVIRONMENTAL WATERWAY PROTECTION	LS	---	---	---	---	---	---	---	NEC	---	---	---	---	---	---
16570.32 M	LOCALIZED PAINTING OF BARE STRUCTURAL STEEL	SM	---	---	---	---	---	---	18	---	21	---	---	---	---	---
16570.72 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL PLANAR SURFACES	SM	---	---	---	---	---	---	18	---	21	---	---	---	---	---
16570.76 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL - IRREGULAR	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
571.010001 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---	---	---	---	---	---	1	---	---	---	---	---	---	---
571.010002 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---	---	---	---	---	---	---	1	---	---	---	---	---	---
571.010003 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
571.010004 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
572.010001 M	STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED	SM	---	---	---	---	---	---	1	---	---	---	---	---	---	---
572.010002 M	STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED	SM	---	---	---	---	---	---	---	---	1	---	---	---	---	---
576.2001M	DOWNSPOUT SYSTEM, DUCTILE IRON	M	---	---	---	---	---	---	3	---	4	---	---	---	---	---
578.020001 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.020002 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.020003 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.020004 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	---	---	---	---	77	---	---	---	---	---
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578.030002 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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578.030006 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.030007 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
579.02 M	REINFORCING BAR EXPOSURE	SM	---	---	---	---	12	---	---	---	77	---	---	---	---	---
580.01 M	REMOVAL OF STRUCTURAL CONCRETE	CM	2	---	2	---	2	---	62	---	15	---	2	---	2	---
582.05 M	REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE	CM	16	---	1	---	1	---	43	---	46	---	2	---	5	---
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585.03 M	STRUCTURAL LIFTING OPERATIONS TYPE C	EA	---	---	---	---	---	---	35	---	35	---	---	---	---	---
586.01 M	DRILL AND GROUT BOLTS, OR REINFORCING BARS	MM	19200	---	13050	---	16650	---	53700	---	59100	---	15600	---	15600	---
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16586.200216 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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589.520002 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	---	---	5	---	---	---	---	---
589.520003 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---
589.520004 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---
589.520005 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	8	---	---	---	---	---	---	---
590.01M	VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES	EA	---	---	---	---	---	---	7	---	9	---	---	---	---	---
603.6001 M	REINFORCED CONCRETE PIPE CLASS III, 300 mm	M	---	---	---	---	---	---	---	---	4	---	---	---	---	---
603.7301M	REINFORCED CONCRETE PIPE END SECTION 300 mm DIAMETER	EA	---	---	---	---	---	---	---	---	3	---	---	---	---	---

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	190	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

**SIGNATURE**

DATE:

**SHEET 11 OF 12**

## ESTIMATE OF QUANTITIES

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME  
305613.L1A

**REGION**  
**3**

DATE  
10/02

DRAWING NO.  
QE-4B



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ESTIMATED BY

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100

## ESTIMATE OF QUANTITIES BY STRUCTURE

[illegible]

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	191	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: SPEC BOOK/PROPOSAL
m	M	METER
m <sup>2</sup>	SQM	SQUARE METER
m <sup>3</sup>	CM	CUBIC METER
km	KM	KILOMETER
ha	HA	HECTARE
kg	KG	KILOGRAM
t OR <i>1000</i>	MT	METRIC TON
L	L	LITER

• THE METRIC TON IS EQUIVALENT TO ONE MEGAGRAM (Mg)

ALL DIMENSIONS ARE IN IN UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

**SIGNATURE**

DATE \_\_\_\_\_

**SHEET 12 OF 12**

### ESTIMATE OF QUANTITIES



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME  
305613.L1A

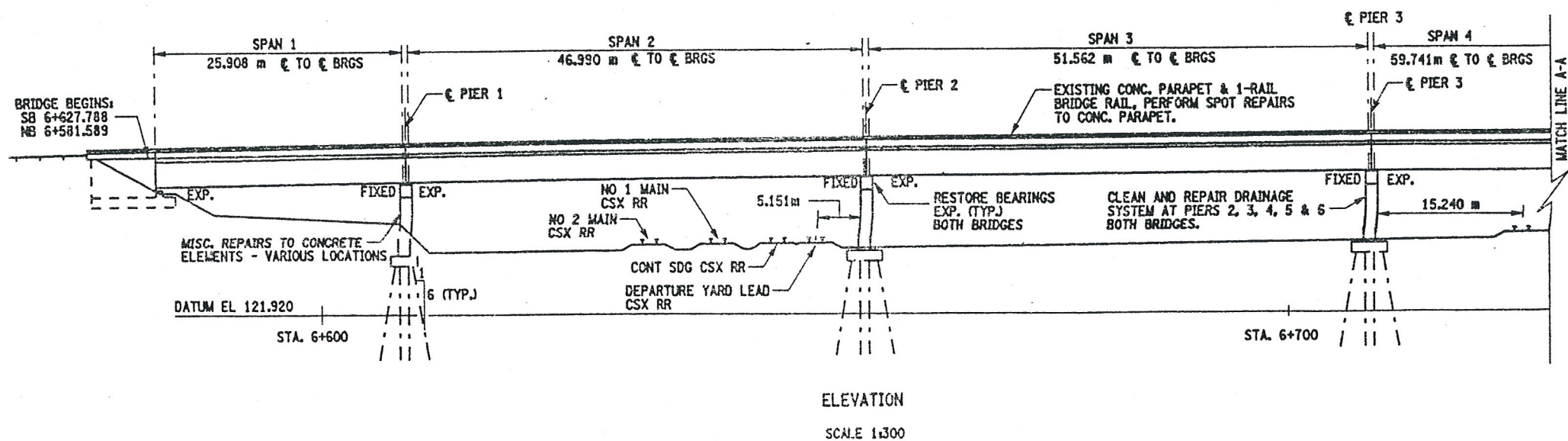
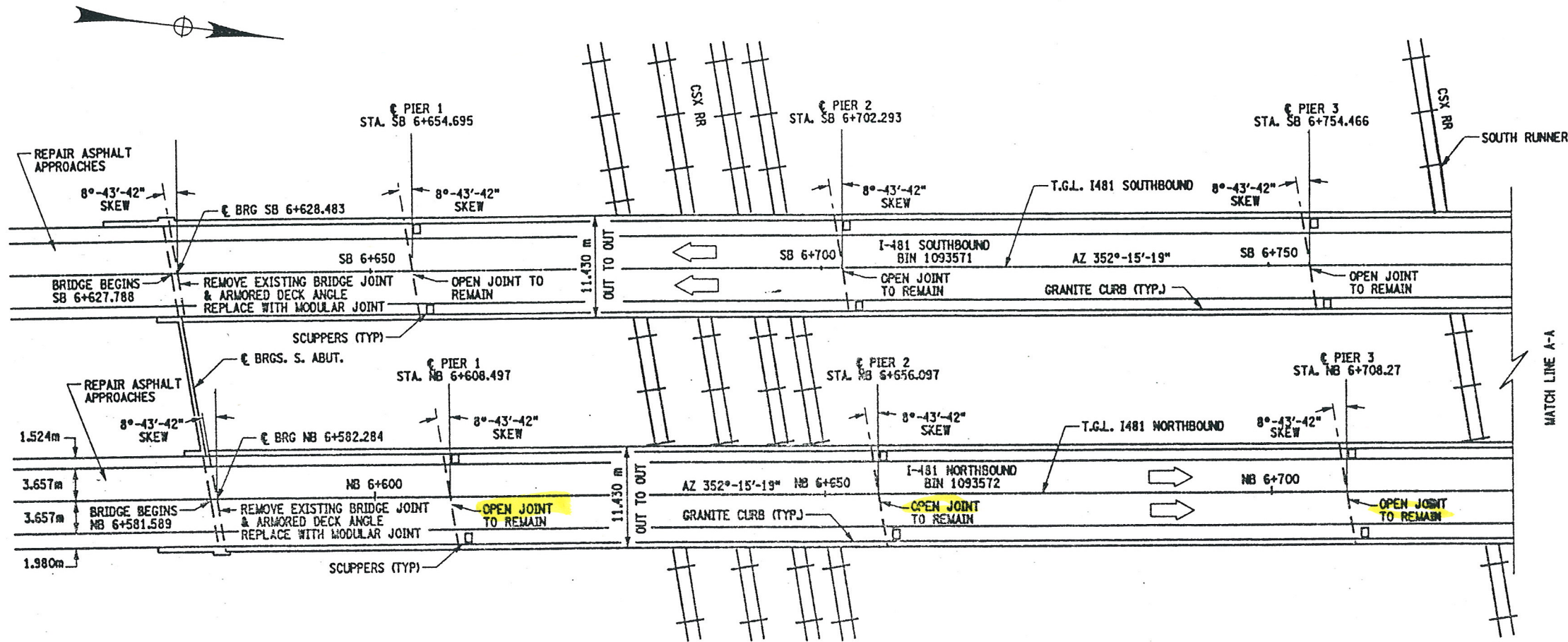
REGION  
3

DATE  
10/02

DRAWING NO.  
QE-4C

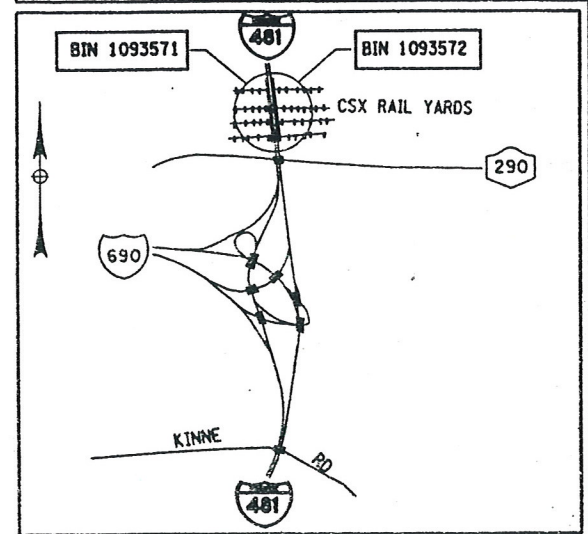


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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	284	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093571 & 1093572



NOTES:

SEE DWG. GP17-2 FOR WORK TO BE DONE ON BIN 1093571  
AND DWG. GP17-3 FOR WORK TO BE DONE ON BIN 1093572.  
REFER TO DWG. NO. JT-3 AND JT-4 FOR BRIDGE JOINT INFORMATION.  
ELECTRIC UTILITY IN THE VICINITY OF BRIDGES. SEE  
INFORMATION AVAILABLE TO BIDDERS FOR ADDITIONAL INFORMATION.

BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND  
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 OVER CSX RAILROAD YARD PLAN AND ELEVATION 1 OF 4			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. GP17-1



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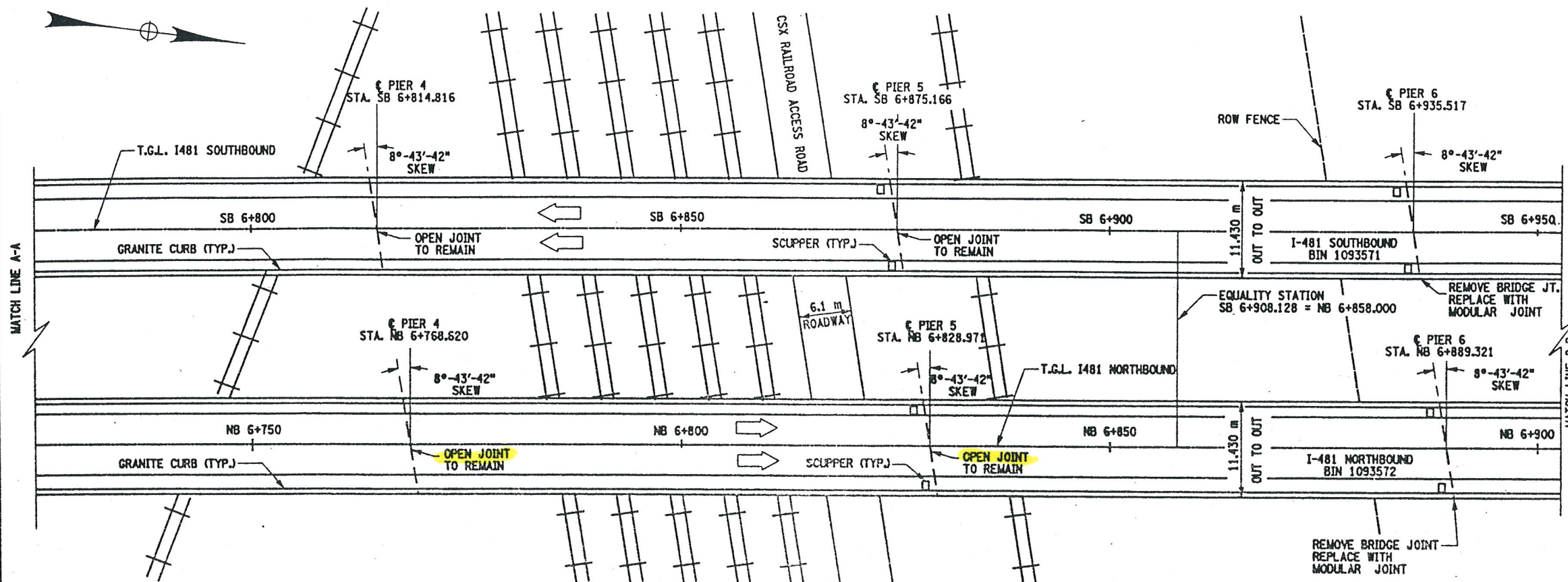
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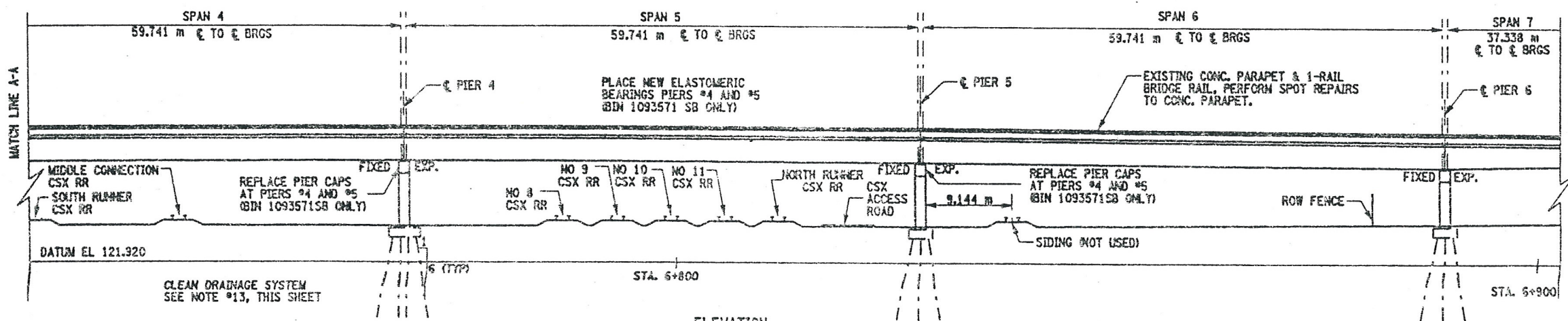
JOB MANAGER

DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	285	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613			B.I.N. 1093571 & 1093572	



PLAN  
SCALE 1:300



ELEVATION  
SCALE 1:300

TRACK	VERTICAL CLEARANCE	HORIZONTAL CLEARANCE
	METERS	METERS
NO 2 MAIN	7.468	16.000
NO 1 MAIN	7.285	NA
CONT SDG	7.498	NA
DEPARTURE YARD LEAD	7.559	5.151
SOUTH RUNNER	8.169	15.240
MIDDLE CONNECTION	8.077	NA
NO 8	8.077	17.891
NO 9	8.077	NA
NO 10	8.077	NA
NO 11	8.159	NA
NORTH RUNNER	8.169	NA
SIDING	NA	9.144

NOTE: ALL DIMENSIONS SHOWN IN THIS TABLE ARE FIELD MEASUREMENTS.

WORK TO BE DONE ON BIN 1093571 SB (NOT NECESSARILY IN THIS ORDER)

1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION, (RR TRAFFIC CONTROL REQUIRED).
2. REMOVE EXISTING BRIDGE JOINTS AT THE BEGINNING ABUTMENT (TO INCLUDE ARMORING DECK ANGLE) AND PIERS #6, #7, #8, #10, #11, #12, #13 AND #14.
3. INSTALL NEW BRIDGE JOINTS, MODULAR ONE-CELL JOINT SYSTEM.
4. INSTALL NEW COMPRESSION SEALS AT THE PARAPET SECTIONS OF THE EXISTING OPEN JOINTS, PIERS #1, #2, #3, #4, #5 & #9. REPAIR EXISTING CONCRETE PARAPETS, OPEN JOINTS TO REMAIN.
5. REMOVE EXISTING ARMORING DECK ANGLE, AT END ABUTMENT.
6. REPAIR THE DECK AREA, WHERE ARMORING ANGLE WAS REMOVED.
7. PERFORM MINOR REPAIRS TO ASPHALT APPROACHES.
8. REPAIR THE CONCRETE ELEMENTS (I.E. PIER CAPS, PIER COLUMNS AND PIER PEDESTALS).
9. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDER EXTENDED BEARINGS).
10. REMOVE PIER CAP #4 AND #5, TO INCLUDE PEDESTALS AND BEARINGS.
11. CONSTRUCT NEW PIER CAPS AND PEDESTALS AT PIERS #4 AND #5.
12. PLACE NEW BEARINGS AT PIERS #4 & #5, (ELASTOMERIC BEARINGS).
13. CLEAN AND MODIFY EXISTING CLOSED DRAINAGE SYSTEM AT PIERS #1, #2, #3, #4, #5 AND #9.
14. INSTALL SCUPPER DOWNSPOUT EXTENSIONS AT EXISTING SCUPPERS, SPANS #7 THRU #14.
15. PERFORM DRAINAGE IMPROVEMENTS AT RR YARD.
16. REPAIR EXISTING CONCRETE PARAPETS.

BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND  
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
PLAN AND ELEVATION  
2 OF 4



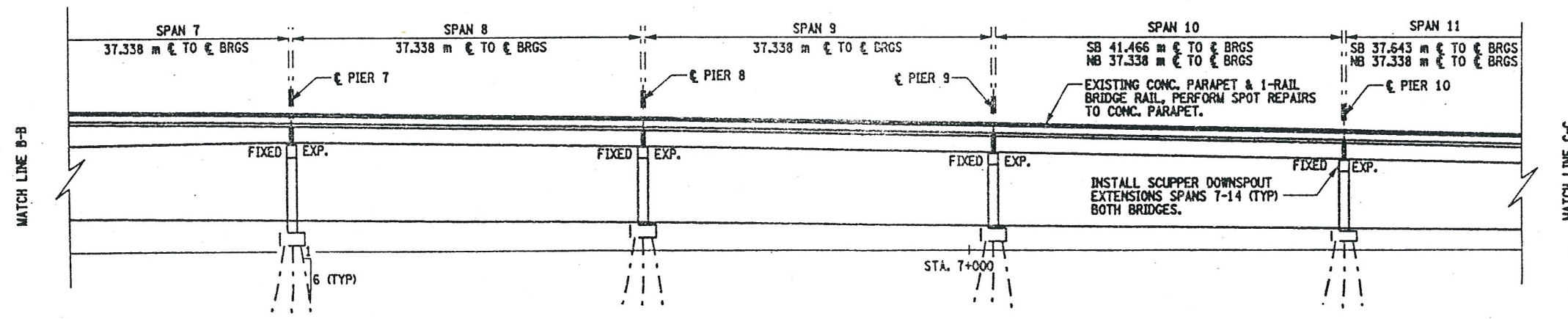
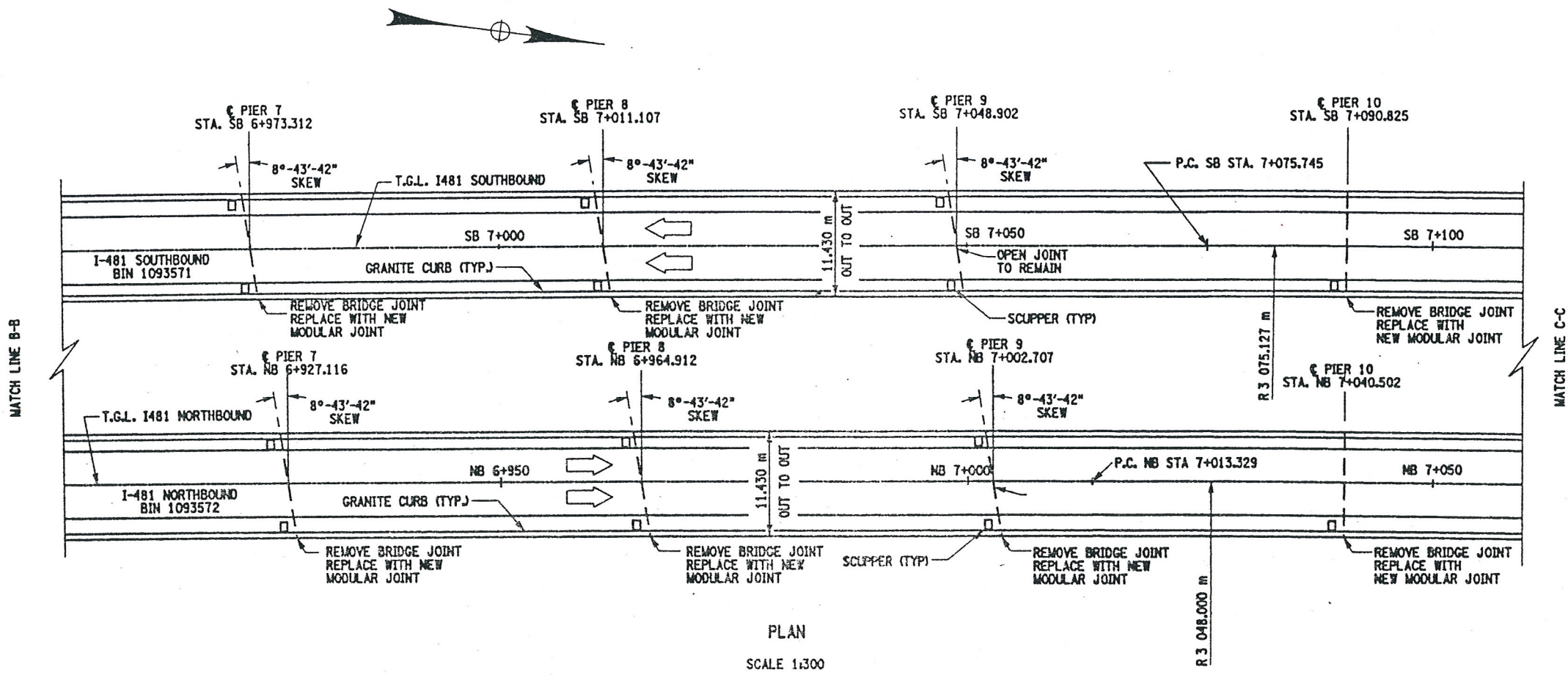
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. GP17-2
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JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	286	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		



CURVE DATA	
SOUTHBOUND	NORTHBOUND
P.C.=7+075.745	P.C.=7+013.329
Δ=7°-04'-13"	Δ=7°-04'-13"
R=3075.127	R=3048.000
L=379.470	L=376.122
T=189.976	T=188.300

BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND  
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
PLAN AND ELEVATION  
3 OF 4

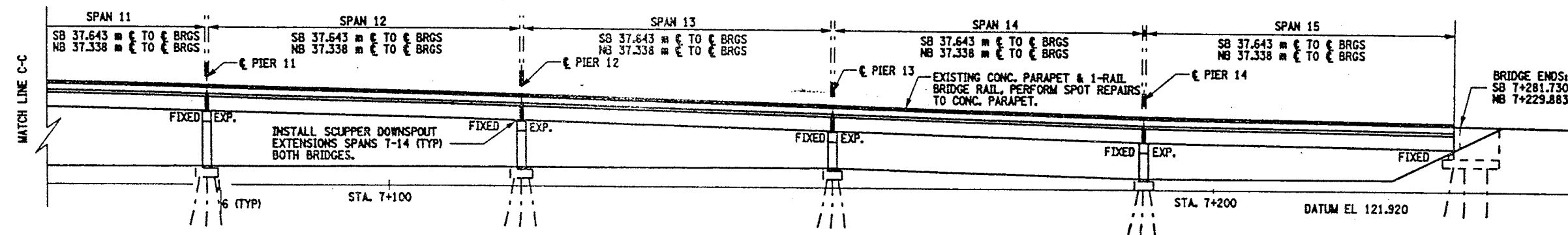
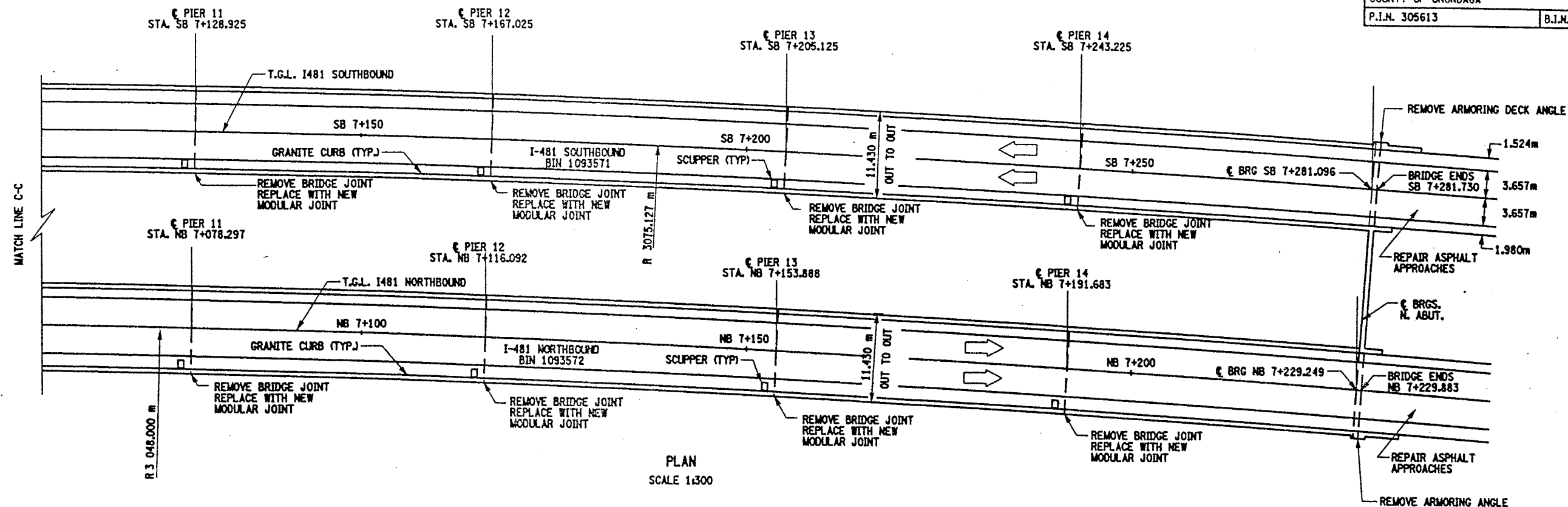
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AE.G1A REGION 3 DATE 10/02 DRAWING NO. GP17-3



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DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	287	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		



BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
PLAN AND ELEVATION  
4 OF 4

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

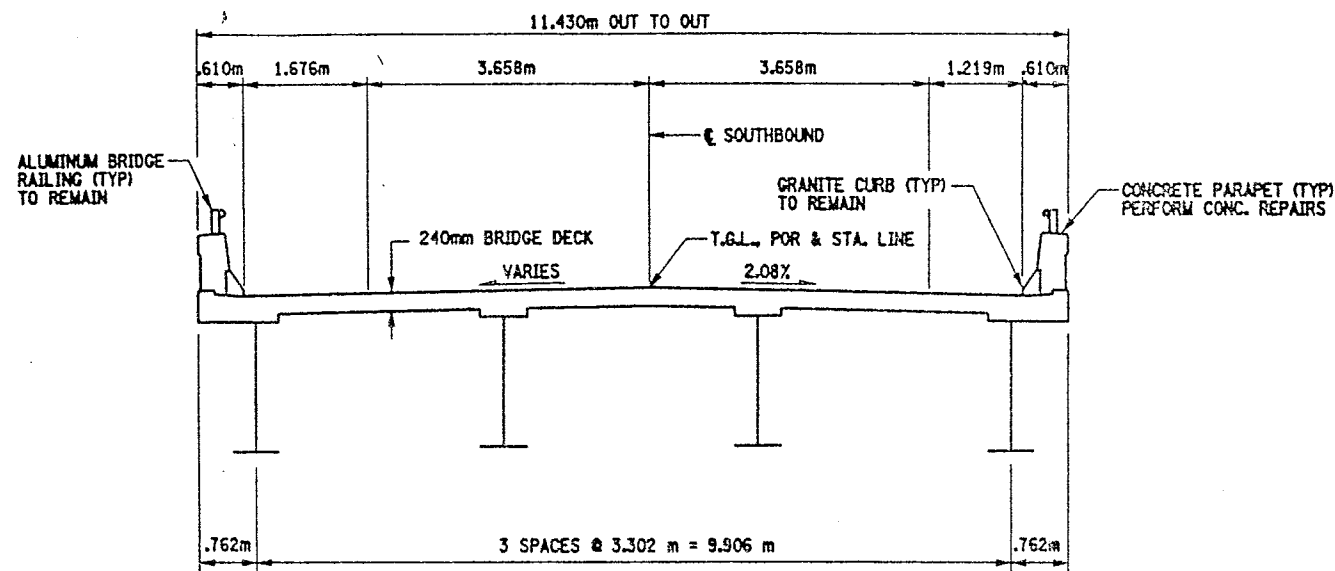


FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. GP17-4
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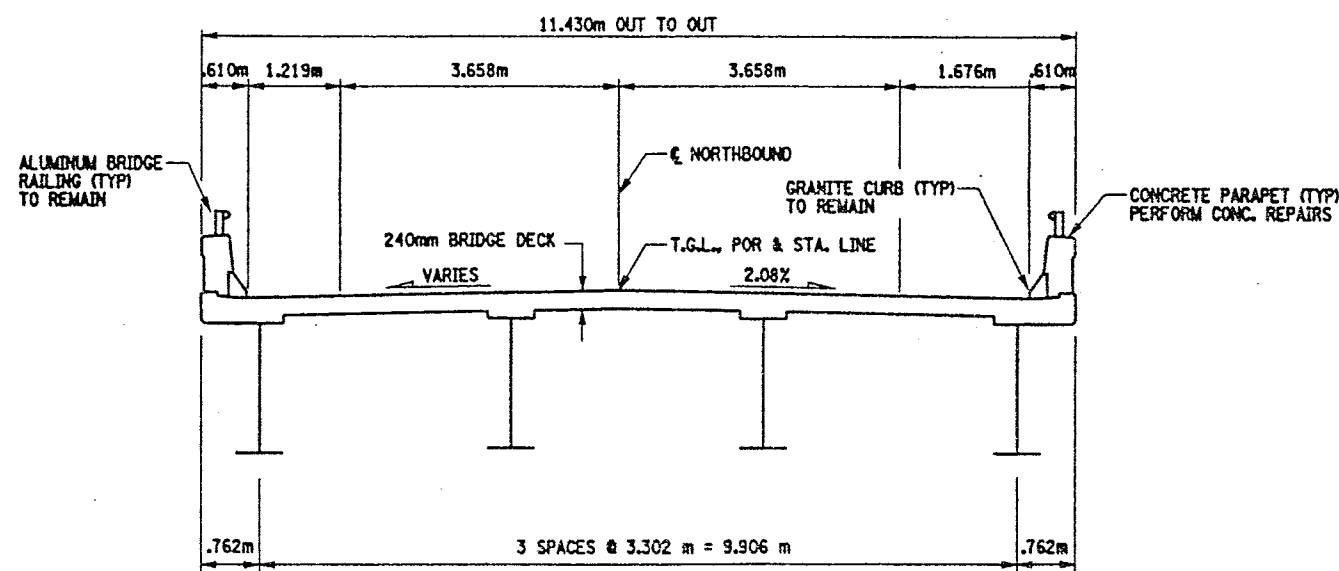


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FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	288	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		



SOUTHBOUND  
BIN 1093571



NORTHBOUND  
BIN 1093572

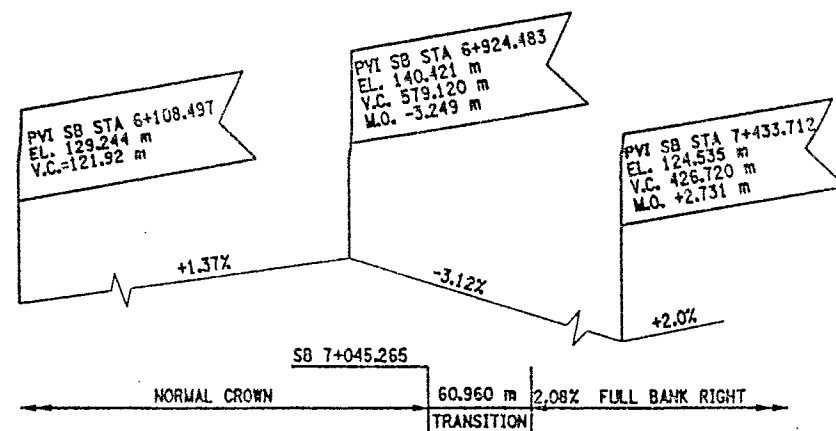
TYPICAL BRIDGE SECTIONS

NOTES:

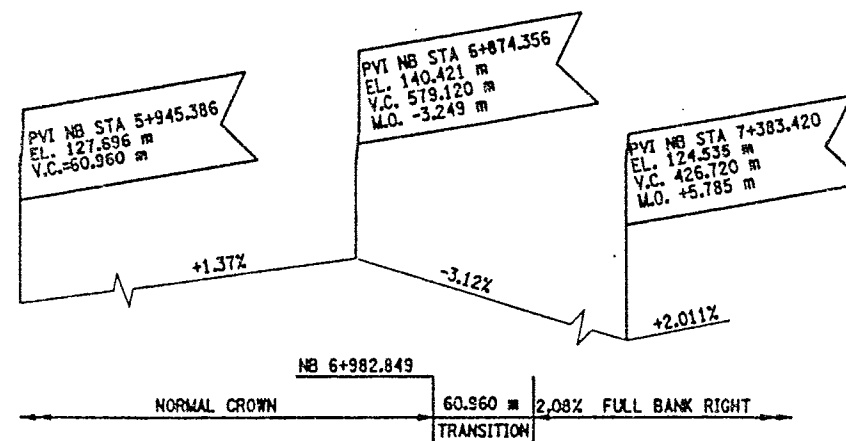
ORIGINAL BRIDGE DECK 203mm MONOLITHIC SLAB.  
38mm CONCRETE OVERLAY ADDED LATER.

SEE ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND  
CONTRACT PLANS D251436.

BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND



PROFILE SOUTHBOUND  
NOT TO SCALE



PROFILE NORTHBOUND  
NOT TO SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

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SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
TYPICAL BRIDGE SECTION  
AND PROFILES



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.G1A	3	10/02	TS17-1

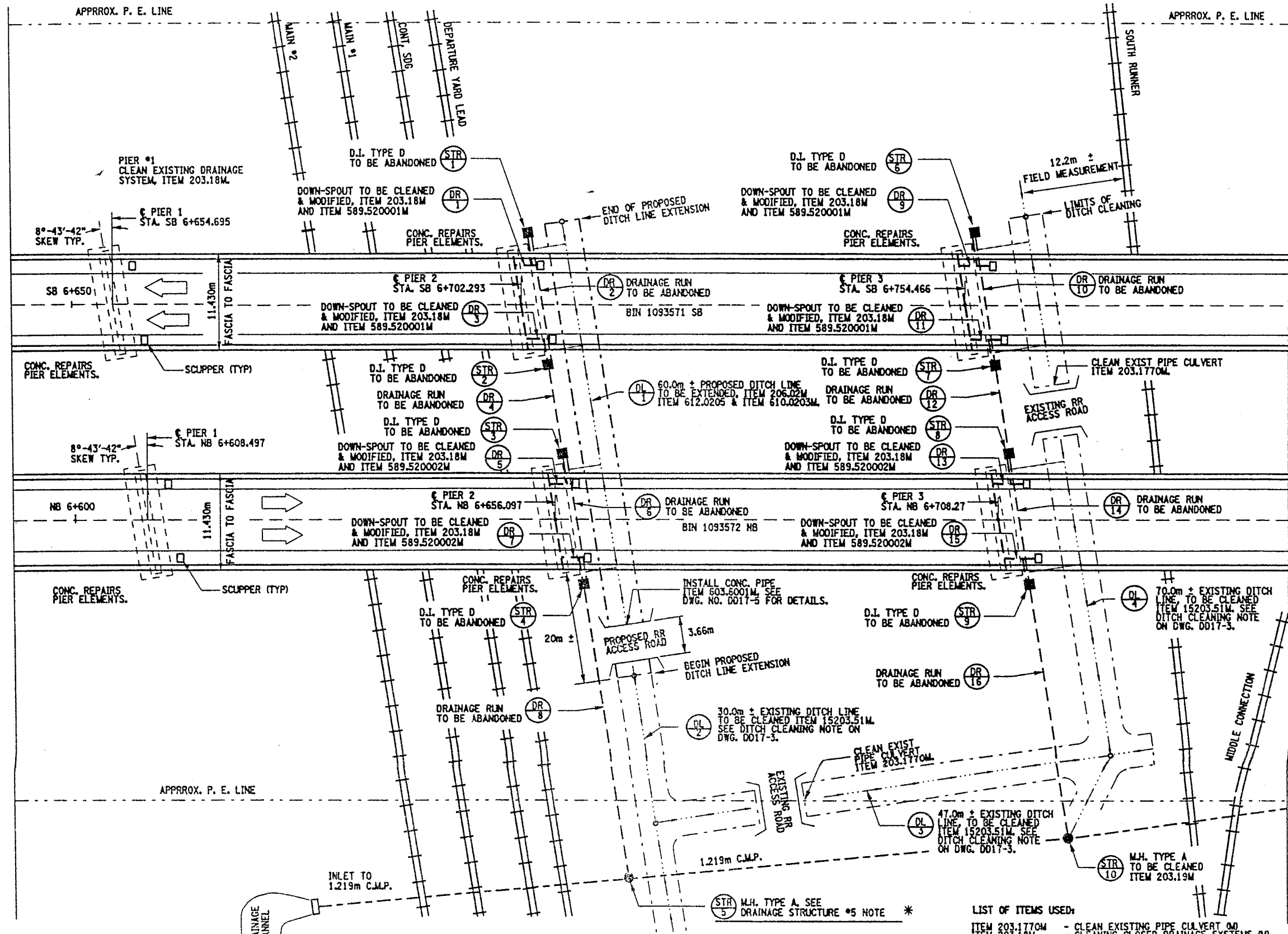


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FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	289	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

**GENERAL NOTES:**  
THE PROPOSED DRAINAGE WORK IS BASED ON DRAINAGE INFORMATION FROM ORIGINAL CONTRACT F.I.S.H. 70-7. REFER TO ORIGINAL CONTRACT PLANS FOR DETAILS OF EXISTING DRAINAGE STRUCTURES.  
THE CONTRACTOR SHALL VERIFY THIS INFORMATION WITH FIELD SITE INSPECTIONS.  
CONTRACTOR SHALL NOTE THAT ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE CLEANED UNDER ITEMS 203.18M OR 203.19M.  
THE EXACT PLACEMENT OF THE PROPOSED RR ACCESS ROAD (CONC. PIPE CULVERT) SHALL BE AT THE DISCRETION OF THE ENGINEER.  
NO EXISTING SURVEY IS AVAILABLE, ITEM 625.01M "SURVEY & STAKEOUT" IS INCLUDED IN CONTRACT FOR ALL NECESSARY WORK, AS DIRECTED BY ENGINEER.  
SEE DRAWING NO. DD17-3 FOR TABLE OF DRAINAGE WORK AND DITCH LINE WORK, TO BE DONE.  
SEE DWG. NO. DD17-4 FOR DOWN-SPOUT MODIFICATION DETAILS.  
SEE DWG. NO. GN-1 FOR SERIALIZED ITEM NOTES.  
SEE DWG. NO. DD17-5 FOR PROPOSED CONC. PIPE AND MISCEL. DETAILS.  
**WORK TO BE DONE:**  
PIER #1 - CLEAN EXISTING DRAINAGE SYSTEM. PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION.  
PIER #2 - DRAINAGE STRUCTURES AND DRAINAGE RUNS TO BE ABANDONED. MODIFY EXISTING DOWN-SPOUTS (REFER TO DRAWING NO. DD17-4 FOR DETAILS). CLEAN THE REMAINING DRAINAGE SYSTEM. THIS WORK SHALL INCLUDE EXTENSION OF THE EXISTING DITCH LINE AND INSTALLATION OF A CULVERT PIPE. ALSO CLEANING AND RESHAPING THE EXISTING DITCH LINE. PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION.  
PIER #3 - DRAINAGE STRUCTURES AND DRAINAGE RUNS TO BE ABANDONED. MODIFY EXISTING DOWN-SPOUTS (REFER TO DRAWING NO. DD17-4 FOR DETAILS). CLEAN THE REMAINING DRAINAGE SYSTEM. THIS WORK SHALL ALSO INCLUDE CLEANING THE EXISTING DITCH LINE AND CLEANING EXISTING CULVERT PIPE. PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION.  
PIER #4 - CLEAN EXISTING DRAINAGE SYSTEM TO INCLUDE ANY REPAIRS TO DRAINAGE STRUCTURES. NORTH BOUND, PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION. SOUTH BOUND, REPLACE PIER CAP.  
PIER #5 - CLEAN EXISTING DRAINAGE SYSTEM TO INCLUDE ANY REPAIRS TO DRAINAGE STRUCTURES AND INSTALLATION OF A NEW OUTLET SECTION (305mm RCCP). NORTH BOUND, PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION. SOUTH BOUND, REPLACE PIER CAP.  
PIER #6 (NB ONLY) - DRAINAGE STRUCTURES AND DRAINAGE RUNS TO BE ABANDONED. MODIFY EXISTING DOWN-SPOUTS (REFER TO DRAWING NO. DD17-4 FOR DETAILS). CLEAN REMAINING DRAINAGE SYSTEM. PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION. CONSTRUCT A SWALE TO DIRECT RUNOFF AWAY FROM PIER AND RR PROPERTY.  
PIER #9 (SB ONLY) - CLEAN EXISTING DRAINAGE SYSTEM.  
SEE DRAWING NO. GP17-2 AND GP17-3 FOR COMPLETE LISTING OF WORK TO BE DONE.

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SIGNATURE		DATE	
INTERSTATE 481 OVER CSX RAILROAD YARD DRAINAGE DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. 0017-1



\* DRAINAGE STRUCTURE #5 NOTE:  
ON FIELD TRIPS BY DESIGN STAFF  
THIS STRUCTURE COULD NOT BE  
LOCATED. IT IS ASSURED THAT  
THIS STRUCTURE HAS BEEN REMOVED.

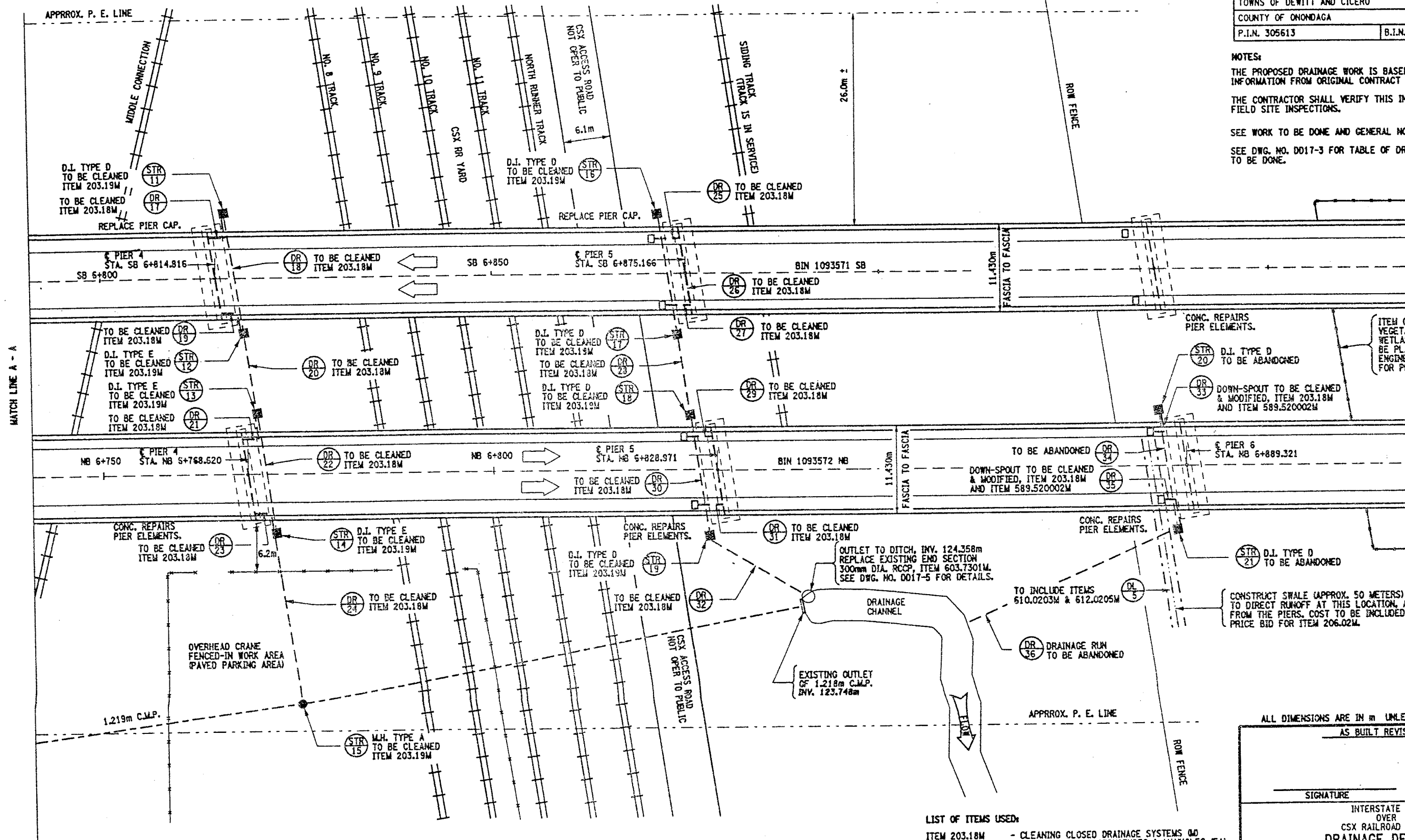
PLAN VIEW  
NOT TO SCALE

- LIST OF ITEMS USED:
- ITEM 203.1770M - CLEAN EXISTING PIPE CULVERT (M)
  - ITEM 203.18M - CLEANING CLOSED DRAINAGE SYSTEMS (M)
  - ITEM 203.19M - CLEAN DRAINAGE STRUCTURES & MANHOLES (M)
  - ITEM 15203.51M - GRADING, CLEANING & RESHAPING EXIST DITCHES (M)
  - ITEM 206.02M - TRENCH AND CULVERT EXCAVATION (CM)
  - ITEM 589.520001M - REMOVAL OF EXISTING STEEL (SA)
  - ITEM 589.520002M - REMOVAL OF EXISTING STEEL (SA)
  - ITEM 603.6001M - REINFC CONC. PIPE, CLASS III, 300mm (M)
  - ITEM 610.0203M - ESTABLISH TURF (SM)
  - ITEM 625.01M - EROSION CONTROL MATERIAL (SM)
  - ITEM 625.01M - SURVEY & STAKEOUT (LS)



FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	290	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

NOTES:  
 THE PROPOSED DRAINAGE WORK IS BASED ON DRAINAGE INFORMATION FROM ORIGINAL CONTRACT F.I.S.H. TO-7.  
 THE CONTRACTOR SHALL VERIFY THIS INFORMATION WITH FIELD SITE INSPECTIONS.  
 SEE WORK TO BE DONE AND GENERAL NOTES ON DWG. NO. D017-1.  
 SEE DWG. NO. D017-3 FOR TABLE OF DRAINAGE WORK TO BE DONE.



PLAN VIEW  
NOT TO SCALE

LIST OF ITEMS USED:

- ITEM 203.18M - CLEANING CLOSED DRAINAGE SYSTEMS (Q)
- ITEM 203.19M - CLEAN DRAINAGE STRUCTURES & MANHOLES (EA)
- ITEM 206.02M - TRENCH AND CULVERT EXCAVATION (CM)
- ITEM 589.520002M - REMOVAL OF EXISTING STEEL (EA)
- ITEM 603.7301M - REINF. CONC. PIPE END SECTION, 300mm (EA)
- ITEM 610.0203M - ESTABLISH TURF (SM)
- ITEM 612.0205M - EROSION CONTROL MATERIAL (SM)
- ITEM 08615.0402M - TREE AND VEGETATION BARRIER (Q)

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SIGNATURE	DATE
INTERSTATE 481 OVER CSX RAILROAD YARD DRAINAGE DETAILS	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.G1A	REGION 3
DATE 10/02	DRAWING NO. D017-2



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SIGNED BY \_\_\_\_\_

MANAGER

SUPERVISOR

530

DRAINAGE RUN TABLE						
DR NO	FROM STRUCTURE	203mm C.I.P.	305mm R.C.C.P.	TO STRUCTURE	WORK TO BE DONE	REMARKS
1	B.I.N. 1093571 SB, PIER 2, WEST COLUMN	18.0m		STR. #1	ITEM 203.18M/589.520001M	CLEAN & OUTLET TO GROUND
2	STR. #1			STR. #2		TO BE ABANDONED
3	B.I.N. 1093571 SB, PIER 2, EAST COLUMN	18.0m		STR. #2	ITEM 203.18M/589.520001M	CLEAN & OUTLET TO GROUND
4	STR. #2			STR. #3		TO BE ABANDONED
5	B.I.N. 1093572 NB, PIER 2, WEST COLUMN	18.0m		STR. #3	ITEM 203.18M/589.520002M	CLEAN & OUTLET TO GROUND
6	STR. #3			STR. #4		TO BE ABANDONED
7	B.I.N. 1093572 NB, PIER 2, EAST COLUMN	18.0m		STR. #4	ITEM 203.18M/589.520002M	CLEAN & OUTLET TO GROUND
8	STR. #4			STR. #5		TO BE ABANDONED
9	B.I.N. 1093571 SB, PIER 3, WEST COLUMN	18.0m		STR. #6	ITEM 203.18M/589.520001M	CLEAN & OUTLET TO GROUND
10	STR. #6			STR. #7		TO BE ABANDONED
11	B.I.N. 1093571 SB, PIER 3, EAST COLUMN	18.0m		STR. #7	ITEM 203.18M/589.520001M	CLEAN & OUTLET TO GROUND
12	STR. #7			STR. #8		TO BE ABANDONED
13	B.I.N. 1093572 NB, PIER 3, WEST COLUMN	18.0m		STR. #8	ITEM 203.18M/589.520002M	CLEAN & OUTLET TO GROUND
14	STR. #8			STR. #9		TO BE ABANDONED
15	B.I.N. 1093572 NB, PIER 3, EAST COLUMN	18.0m		STR. #9	ITEM 203.18M/589.520002M	CLEAN & OUTLET TO GROUND
16	STR. #9			STR. #10		TO BE ABANDONED
17	B.I.N. 1093571 SB, PIER 4, WEST COLUMN	18.0m		STR. #11	ITEM 203.18M	CLEAN
18	STR. #11		14.6m	STR. #12	ITEM 203.18M	CLEAN
19	B.I.N. 1093571 SB, PIER 4, EAST COLUMN	18.0m		STR. #12	ITEM 203.18M	CLEAN
20	STR. #12		9.8m	STR. #13	ITEM 203.18M	CLEAN
21	B.I.N. 1093572 NB, PIER 4, WEST COLUMN	18.0m		STR. #13	ITEM 203.18M	CLEAN
22	STR. #13		14.6m	STR. #14	ITEM 203.18M	CLEAN
23	B.I.N. 1093572 NB, PIER 4, EAST COLUMN	18.0m		STR. #14	ITEM 203.18M	CLEAN
24	STR. #14		22.8m	STR. #15	ITEM 203.18M	CLEAN
25	B.I.N. 1093571 SB, PIER 5, WEST COLUMN	18.0m		STR. #16	ITEM 203.18M	CLEAN
26	STR. #16		13.4m	STR. #17	ITEM 203.18M	CLEAN
27	B.I.N. 1093571 SB, PIER 5, EAST COLUMN	18.0m		STR. #17	ITEM 203.18M	CLEAN
28	STR. #17		9.3m	STR. #18	ITEM 203.18M	CLEAN
29	B.I.N. 1093572 NB, PIER 5, WEST COLUMN	18.0m		STR. #18	ITEM 203.18M	CLEAN
30	STR. #18		14.6m	STR. #19	ITEM 203.18M	CLEAN
31	B.I.N. 1093572 NB, PIER 5, EAST COLUMN	18.0m		STR. #19	ITEM 203.18M	CLEAN
32	STR. #19		12.6m	TO OUTLET	ITEM 203.18M/603.7301M	CLEAN AND REPLACE END SECTION
33	B.I.N. 1093572 NB, PIER 6, WEST COLUMN	14.0m		STR. #20	ITEM 203.18M/589.520002M	CLEAN & OUTLET TO GROUND
34	STR. #20			STR. #21		TO BE ABANDONED
35	B.I.N. 1093572 NB, PIER 6, EAST COLUMN	14.0m		STR. #21	ITEM 203.18M/589.520002M	CLEAN & OUTLET TO GROUND
36	STR. #21			TO OUTLET		TO BE ABANDONED
	PIER #1 BOTH BRIDGES	64.0m				
	PIER #9 SB (ONLY)	32.0m				

EST. TOTAL OF ITEM 203.10W IS 525 METERS.

GENERAL NOTES:

THE QUANTITIES SHOWN ARE FOR THE PURPOSE OF ESTIMATING THE PROJECT, THE CONTRACTOR SHALL VERIFY THESE QUANTITIES.

ELEVATIONS TAKEN FROM ORIGINAL CONTRACT F.I.S.H. 70-7.  
CONTRACTORS SHALL VERIFY ELEVATIONS.

DRAINAGE RUNS AT THE TROUGHS ARE DIVIDED AT MID-POINT OF PIER.


FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0259214	291	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613			B.I.N. 1093571 & 1093572	

### DRAINAGE STRUCTURE TABLE

[illegible]

GRAND TOTAL OF 10 EACH OF ITEM 203.19M

### TABLE OF DITCH LINES

	APPROX. LOCATION	ESTIMATED LENGTH	ITEM USED
1	PIER #2, FROM STR. 1 TO EXISTING DITCH LINE	60 METERS ±	206.02M
2	FROM PROPOSED DITCH LINE EXTENSION TO STR. 5	30 METERS ±	15203.51M
3	FROM @ PIER #2 TO @ PIER #3	47 METERS ±	15203.51M
4	FROM @ STR. 10 TO @ STR. 6	70 METERS ±	15203.51M
5	FROM @ STR. 20 TO ROW FENCE	50 METERS ±	206.02M

LIST OF ITEMS USED:

ITEM 203.18W	- CLEAN CLOSED DRAINAGE SYSTEMS (M)
ITEM 203.19W	- CLEAN DRAINAGE STRUCTURES AND MANHOLES (EA)
ITEM 15203.51M	- GRADING, CLEANING & RESHAPING EXISTING DITCH (M)
ITEM 206.02M	- TRENCH & CULVERT EXCAVATION (CSM)
ITEM 589.520001M	- REMOVAL OF EXISTING STEEL (EA)
ITEM 589.520002M	- REMOVAL OF EXISTING STEEL (EA)
ITEM 603.7301M	- REINF. CONC. PIPE END SECTION (EA)
ITEM 610.0203W	- ESTABLISH TURF (SM)
ITEM 612.0205W	- EROSION CONTROL MATERIAL (SM)

## DITCH CLEANING NOTE:

IN CONJUNCTION WITH THE USE OF ITEM 15203.51W - GRADING, CLEANING & RESHAPING EXISTING DITCHES. ITEM 612.0205W - EROSION CONTROL MATERIAL AND ITEM 610.0203W - ESTABLISH TURF, SHALL ALSO BE INCORPORATED WITH ANY DITCH WORK.

ALL DIMENSIONS ARE IN IN UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
TABLE OF DRAINAGE RUNS & STRUCTURES

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.G1A	3	10/02	DD17-3



FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	292	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

#### GENERAL NOTES:

- EXISTING INLET DOWNSPOUT, ADJACENT DRAINAGE STRUCTURES AND CONNECTING DRAINAGE RUNS AT PIER #2 NB & SB, PIER #3 NB & SB AND PIER #6 NORTHBOUND ONLY, TO BE ABANDONED.
- EXISTING DRAINAGE PIPE (DUCTILE IRON PIPE) SHALL BE CUT OFF AT LOCATION SHOWN OR AS DIRECTED BY ENGINEER, AS PER SECTION 589 OF STANDARD SPECIF. (SEE MODIFICATION NOTES).
- THE ABANDONED INLET DOWNSPOUT PIPE (THE PORTION STILL IN THE GROUND) SHALL BE CAPPED WITH A DUCTILE IRON CAP, IN A MANNER ACCEPTABLE TO THE ENGINEER. ALL COSTS SHALL BE INCLUDED IN BID PRICE FOR ITEM 576.2001M.
- THE CONTRACTOR SHALL NOTE THAT CLEANING THE DRAINAGE SYSTEM SHALL INCLUDE SCUPPERS, HOPPERS, TROUGHS AND DOWNSPOUTS. THE CLEANING OF THE DRAINAGE SYSTEM SHALL BE FROM THE BRIDGE DECK TO THE OUTLETTED DOWNSPOUTS.
- NO SHOP DRAWINGS SHALL BE REQUIRED FOR DOWNSPOUT ELBOW.
- SEE DRAWINGS NO. DD17-1 AND DD17-2 FOR MODIFICATION LOCATIONS.
- SEE DRAWING NO. DD17-3 FOR TABLE OF DRAINAGE WORK TO BE DONE.
- ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND PREVIOUS CONTRACT NUMBER D251436.
- ALL COSTS ASSOCIATED WITH THE INSTALLATION OF THE PROPOSED DOWNSPOUT ELBOW & COUPLING TO BE INCLUDED IN THE BID PRICE FOR ITEM 576.2001M.
- SEE DRAWING NO. DD17-8 FOR MISC. DRAINAGE CLEANING DETAILS AND PLAN VIEW OF SPLASH PAD WITH STONE FILL.

#### ITEM CLARIFICATION NOTE:

ITEM 570.090001M - ENVIRONMENTAL GROUND PROTECTION IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE.

BIN 1093571 SB SHALL USE ITEM 570.090001M  
BIN 1093572 NB SHALL USE ITEM 570.090002M

ITEM 572.010001M - STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED, IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE.

BIN 1093571 SB SHALL USE ITEM 572.010001M  
BIN 1093572 NB SHALL USE ITEM 572.010002M

ITEM 589.520001M - REMOVAL OF EXISTING STEEL IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE.

BIN 1093571 SB SHALL USE ITEM 589.520001M  
BIN 1093572 NB SHALL USE ITEM 589.520002M

ITEM 571.010001M - TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE, IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE.

BIN 1093571 SB SHALL USE ITEM 571.010001M  
BIN 1093572 NB SHALL USE ITEM 571.010002M

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

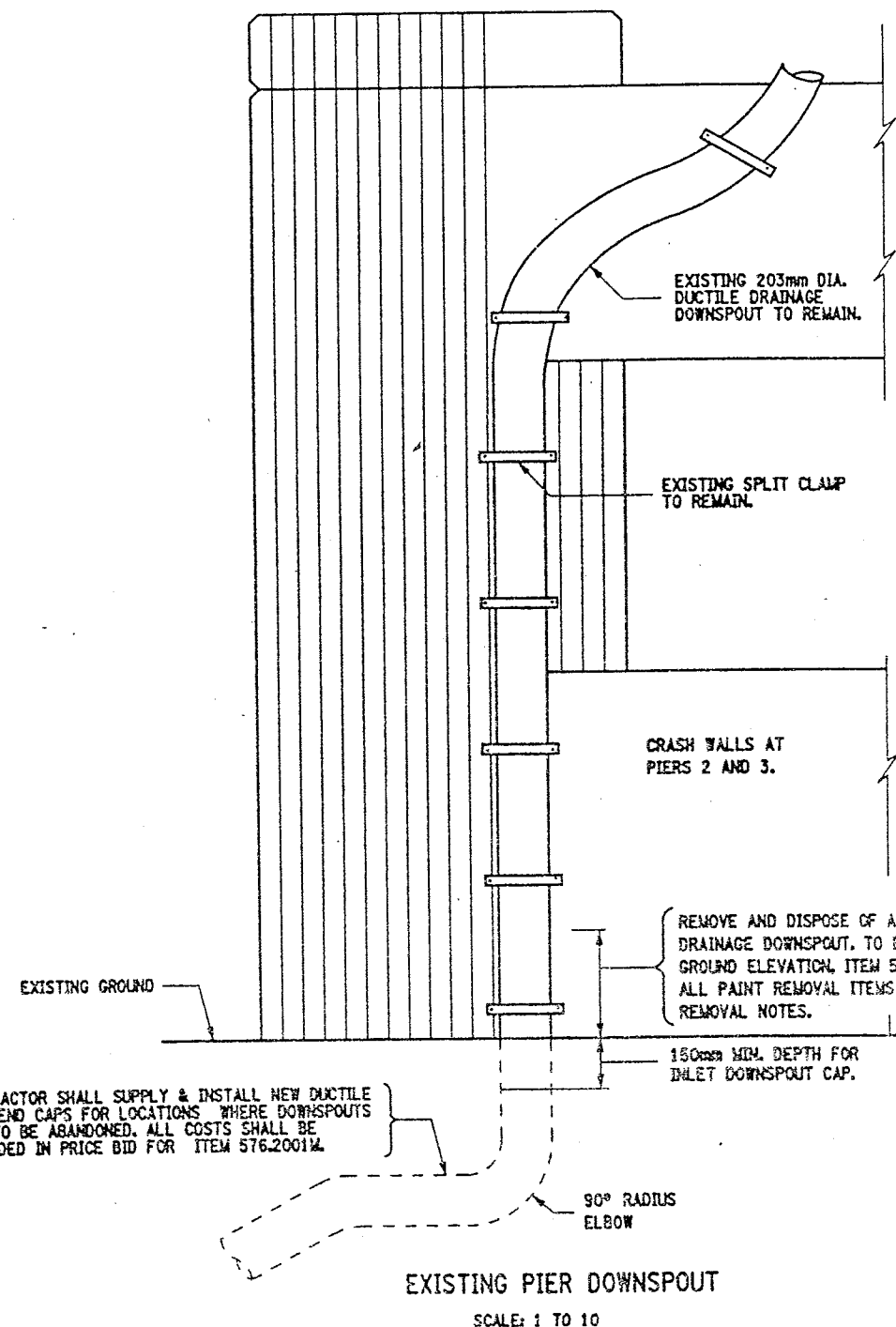
SIGNATURE DATE

INTERSTATE 481 NB AND SB  
OVER  
CSX RAILROAD YARD  
MODIFICATION OF PIER DOWNSPOUTS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.D1A	3	10/02	DD17-4



CONTRACTOR SHALL SUPPLY & INSTALL NEW DUCTILE IRON END CAPS FOR LOCATIONS WHERE DOWNSPOUTS ARE TO BE ABANDONED. ALL COSTS SHALL BE INCLUDED IN PRICE BID FOR ITEM 576.2001M.

#### PAINT REMOVAL NOTES:

PAINT REMOVAL WORK SHALL BE DONE IN ACCORDANCE WITH REQUIREMENTS OF SECTION 741 OF STANDARD SPECIF.

REMOVE EXISTING PAINT FROM SPECIFIED ELEMENTS, PRIOR TO ANY CUTTING OR WELDING.

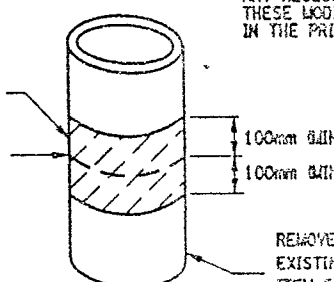
PAINT SHALL BE REMOVED TO 100mm MIN. FROM THE PROPOSED WELD/CUT LOCATION.

IN CONJUNCTION WITH THE USE OF ITEM 16570.72M - LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL, ITEM 570.090001M - ENVIRONMENTAL GROUND PROTECTION AND ITEM 571.010001M - TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE, SHALL ALSO BE INCORPORATED DURING PAINT REMOVAL OPERATIONS, (SEE ITEM CLARIFICATION NOTE, THIS SHEET).

THIS PAINT REMOVAL OPERATION SHALL BE REGARDED AS "EXEMPT SMALL GENERATOR STATUS" AND ALL PROVISIONS OF PART 372, 6 NYCRR SHALL APPLY.

REMOVE EXISTING PAINT  
ITEM 16570.72M. SEE  
PAINT REMOVAL NOTES.

LOCATION OF  
PROPOSED CUT



LIMITS OF PAINT REMOVAL  
NOT TO SCALE

#### DOWNSPOUT MODIFICATION NOTES:

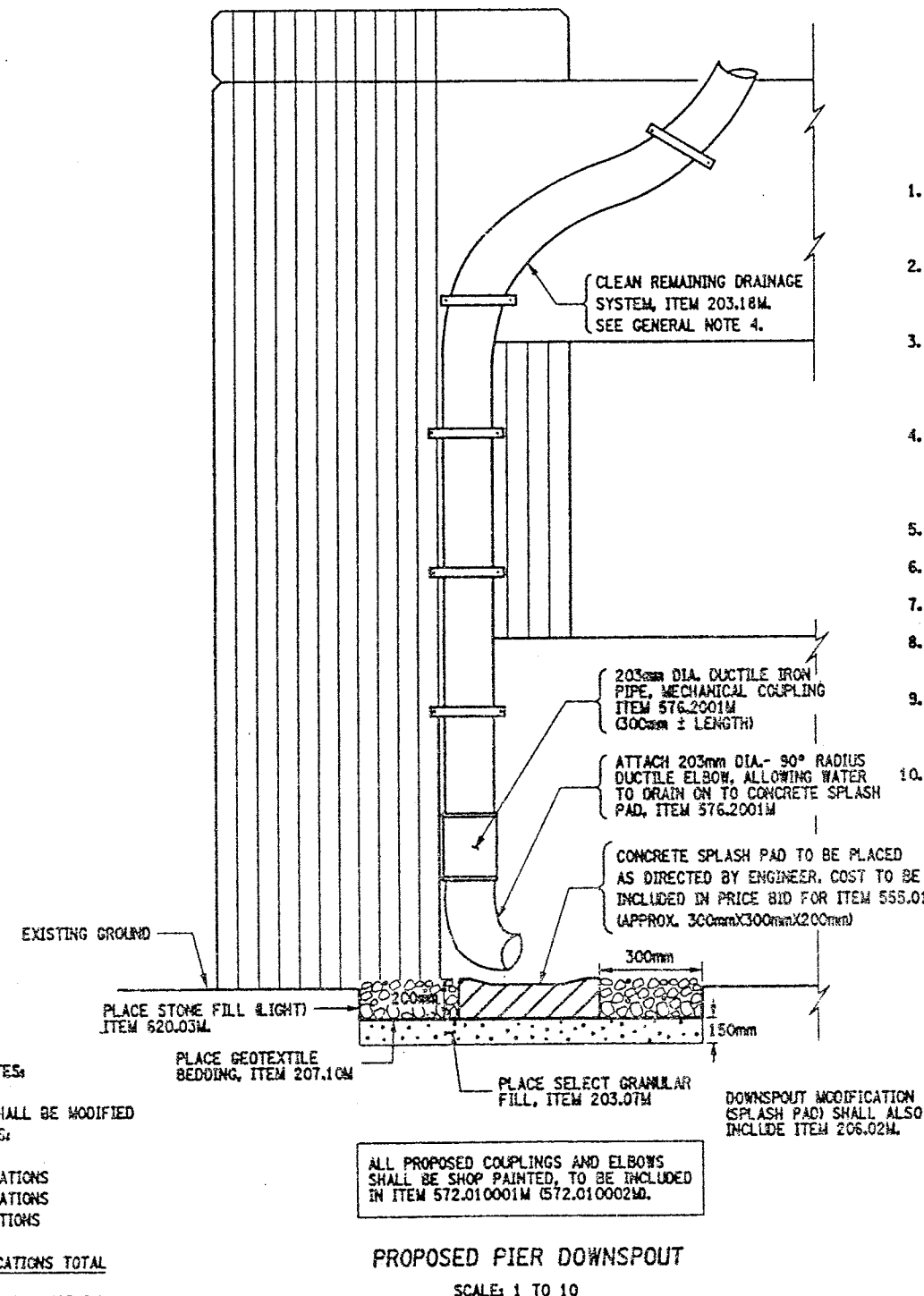
THE EXISTING DOWNSPOUTS SHALL BE MODIFIED AT THE FOLLOWING LOCATIONS:

PIER #2 NB AND SB 4 LOCATIONS  
PIER #3 NB AND SB 4 LOCATIONS  
PIER #6 NB 2 LOCATIONS

10 LOCATIONS TOTAL

ANY NECESSARY WORK NEEDED TO PERFORM THESE MODIFICATIONS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 576.2001M.

REMOVE A PORTION OF THE EXISTING DRAINAGE PIPE  
ITEM 589.520001M  
(SEE ITEM CLARIFICATION NOTE)



#### ITEMS USED:

- ITEM 203.07M - SELECT GRANULAR FILL, (CM)
- ITEM 203.18M - CLEAN CLOSED DRAINAGE SYSTEMS (m)
- ITEM 206.02M - TRENCH & CULVERT EXCAV. (CM)
- ITEM 207.10M - GEOTEXTILE BEDDING, (CM)
- ITEM 555.0105M - CONCRETE FOR STRUCTURES, CLASS "A" (CM)
- ITEM 570.090001M - ENVIRONMENTAL GROUND PROTECTION (LS)
- ITEM 570.090002M - ENVIRONMENTAL GROUND PROTECTION (LS)
- ITEM 16570.72M - LOCALIZED VACUUM CONT. CLEANING STRUCT. STEEL (CM)
- ITEM 571.010001M - TREATMENT & DISPOSAL OF PAINT REMOVAL WASTE (CM)
- ITEM 571.010002M - TREATMENT & DISPOSAL OF PAINT REMOVAL WASTE (CM)
- ITEM 572.010001M - STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED (CM)
- ITEM 572.010002M - STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED (CM)
- ITEM 589.520001M - REMOVAL OF EXISTING STEEL (EA)
- ITEM 589.520002M - REMOVAL OF EXISTING STEEL (EA)
- ITEM 576.2001M - DOWNSPOUT SYSTEM, DUCTILE IRON (m)
- ITEM 620.03M - STONE FILL, LIGHT (CM)

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DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

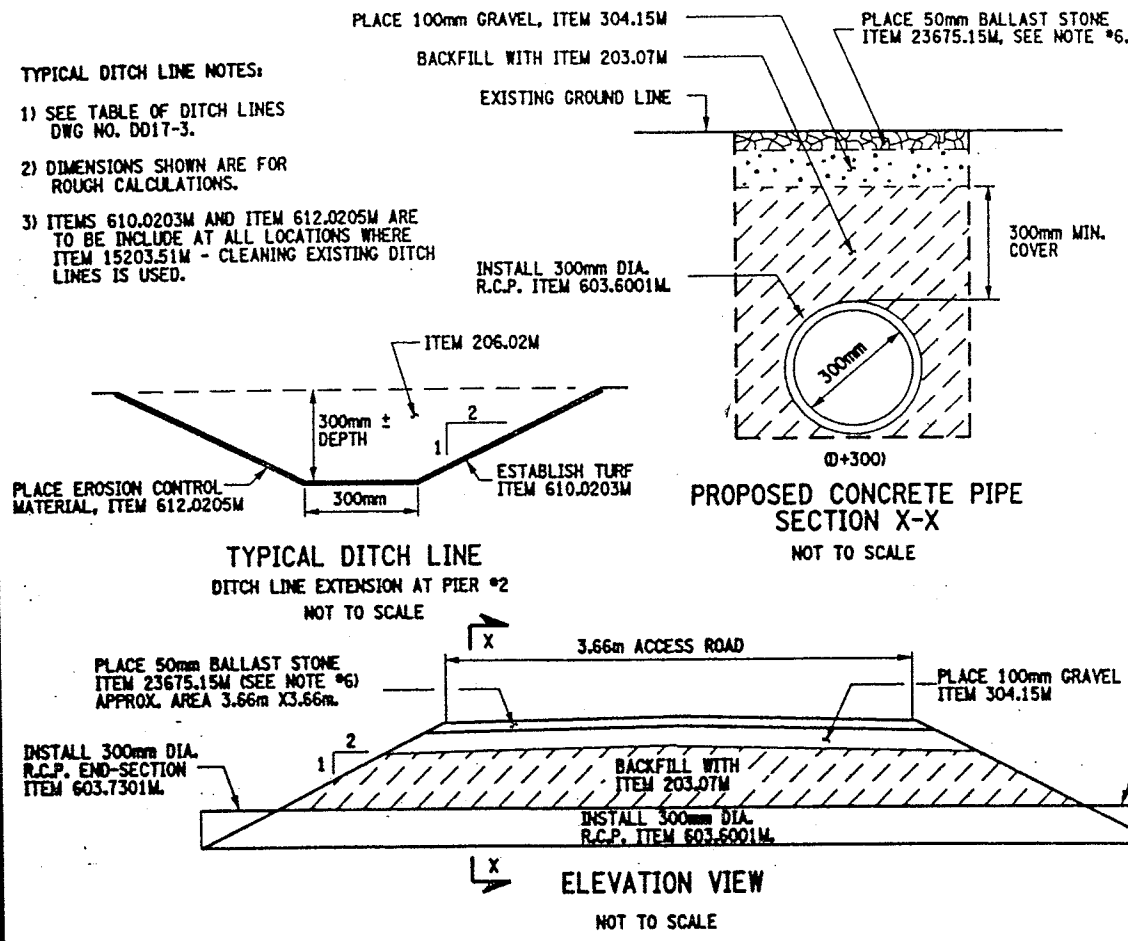
JOB MANAGER

DESIGN SUPERVISOR



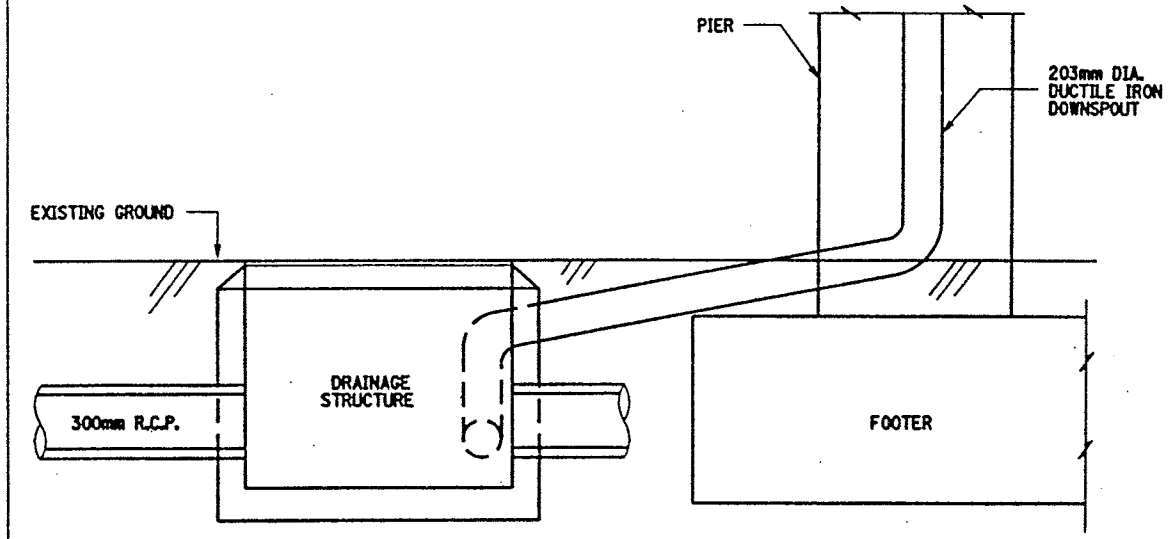
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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

**TYPICAL DITCH LINE NOTES:**  
1) SEE TABLE OF DITCH LINES DWG. NO. DD17-3.  
2) DIMENSIONS SHOWN ARE FOR ROUGH CALCULATIONS.  
3) ITEMS 610.0203M AND ITEM 612.0205M ARE TO BE INCLUDED AT ALL LOCATIONS WHERE ITEM 15203.51M - CLEANING EXISTING DITCH LINES IS USED.

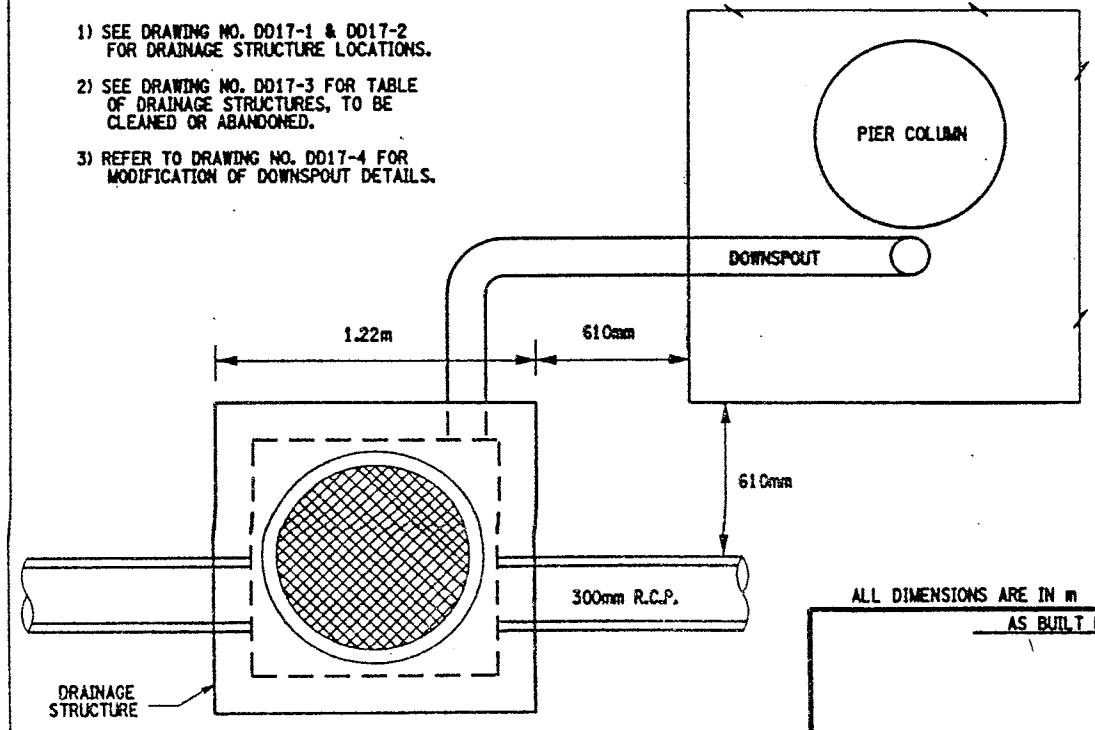


- CULVERT PIPE NOTES:**
- 1) EXTEND EXISTING DITCH LINE FROM ITS CURRENT LOCATION (SEE DWG. NO. DD17-1) APPROXIMATELY 20 METERS EAST OF PIER #2. TO 5 METERS BEYOND PIER #2, WEST SIDE. THE COST TO BE PAID UNDER ITEM 206.02M. REFER TO "TABLE OF DITCH LINES" DWG. NO. DD17-3 FOR DITCH LINE NUMBER #1.
  - 2) INSTALL PIPE CULVERT TO PROVIDE RAILROAD (CSX) ACCESS TO PIER 2. THE EXACT LOCATION OF THE PROPOSED CULVERT SHALL BE DETERMINED BY THE ENGINEER.
  - 3) THE PROPOSED CULVERT PIPE SLOPE TO MATCH THE SLOPE OF THE EXISTING DITCH LINE. NOTE: NO EXISTING SURVEY AVAILABLE, ITEM 625.01M, "SURVEY & STAKEOUT" IS INCLUDED IN CONTRACT. NO PROPOSED INVERT ELEVATIONS GIVEN.
  - 4) REFER TO NYS STANDARD SHEETS M203-4, M203-5 M203-6R1 AND M603-1.
  - 5) NO LEAKAGE TEST REQUIRED.
  - 6) FINISHED GRADE AT PROPOSED CULVERT INSTALLATION PLACEMENT OF ITEM 23675.15M, SHALL BE APPROVED BY CSXT DISTRICT ENGINEER. IF THIS MATERIAL DOES NOT SATISFY THE RAILROAD REQUIREMENTS FOR "APPROVED RAILROAD BALLAST STONE", THEN THE APPROPRIATE MATERIAL SHALL BE SUBSTITUTED FOR ITEM 23675.15M AT NO ADDITIONAL COST TO THE STATE.
  - 7) THE CLASS & SIZE REQUIREMENTS FOR THE BALLAST STONE ITEM 23675.15M, SHALL BE DETERMINED BY THE ENGINEER.
  - 8) INSTALLATION OF R.C.P. END-SECTIONS SHALL INCLUDE STONE FILL, ITEM 620.03M, PLACED AT INLET & OUTLET OF RCP END-SECTIONS, A.O.B.E.)

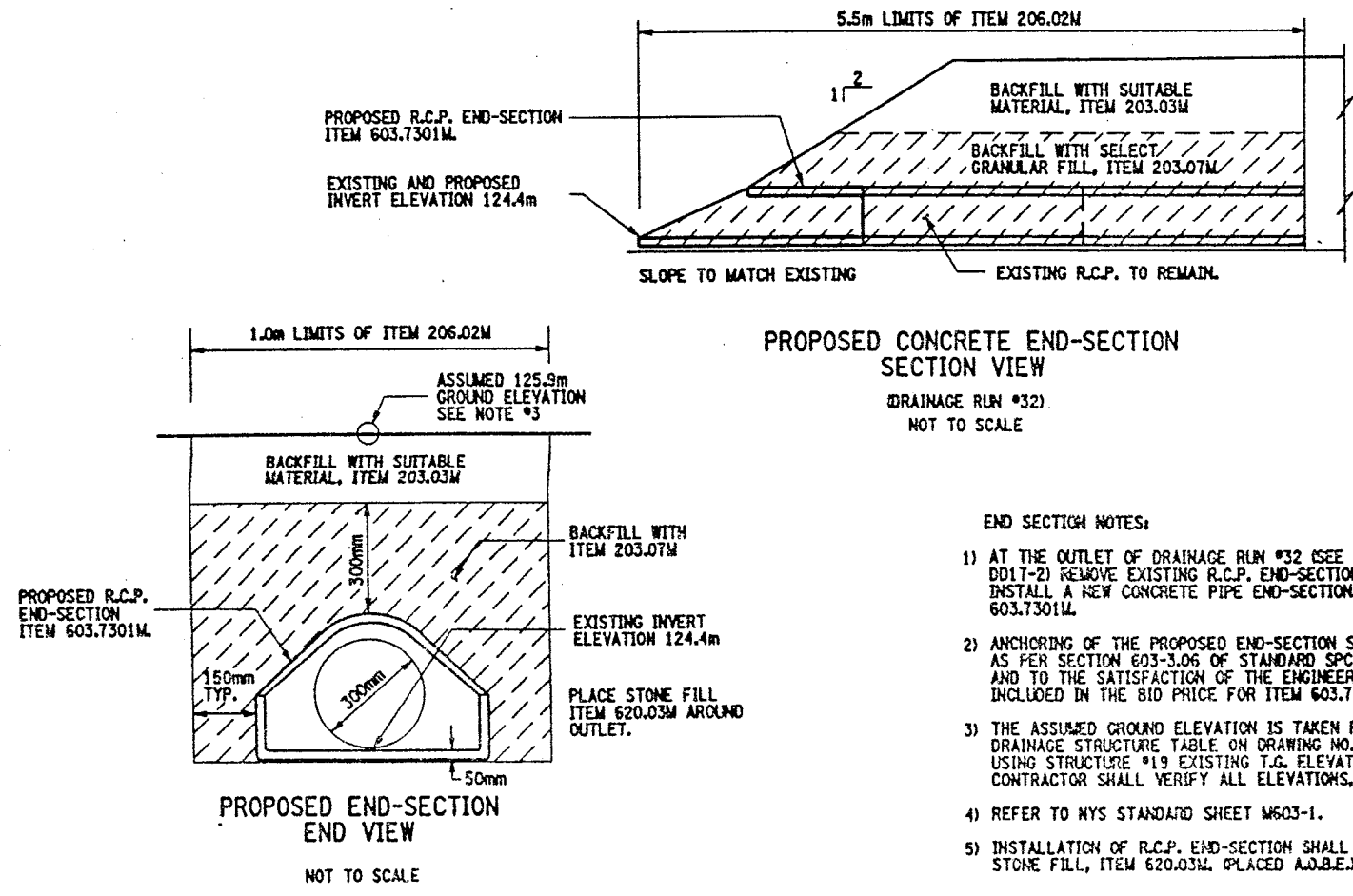
- ITEMS USED:**
- ITEM 203.03M - EMBANKMENT IN PLACE (CM)
  - ITEM 203.07M - SELECT GRANULAR FILL (CM)
  - ITEM 206.02M - TRENCH & CULVERT EXCAVATION (CM)
  - ITEM 304.15M - SUBBASE COURSE, OPTIONAL (CM)
  - ITEM 603.6001M - REINFORCED CONCRETE PIPE CLASS III (M)
  - ITEM 603.7301M - REINFORCED CONCRETE PIPE END SECTION (EACH)
  - ITEM 610.0203M - ESTABLISHING TURF (SM)
  - ITEM 612.0205M - EROSION CONTROL MATERIAL, CLASS II TYPE B (SM)
  - ITEM 620.03M - STONE FILL, LIGHT, (CM)
  - ITEM 625.01M - SURVEY & STAKEOUT (L.S.)
  - ITEM 23675.15M - FURNISH AND PLACE STONE BALLAST SURFACING COURSE (MT)



- DRAINAGE STRUCTURE NOTES:**
- 1) SEE DRAWING NO. DD17-1 & DD17-2 FOR DRAINAGE STRUCTURE LOCATIONS.
  - 2) SEE DRAWING NO. DD17-3 FOR TABLE OF DRAINAGE STRUCTURES, TO BE CLEANED OR ABANDONED.
  - 3) REFER TO DRAWING NO. DD17-4 FOR MODIFICATION OF DOWNSPOUT DETAILS.



- END SECTION NOTES:**
- 1) AT THE OUTLET OF DRAINAGE RUN #32 (SEE DWG. NO. DD17-2) REMOVE EXISTING R.C.P. END-SECTION AND INSTALL A NEW CONCRETE PIPE END-SECTION, ITEM 603.7301M.
  - 2) ANCHORING OF THE PROPOSED END-SECTION SHALL BE AS PER SECTION 603-3.06 OF STANDARD SPECIFICATIONS AND TO THE SATISFACTION OF THE ENGINEER. COST BE INCLUDED IN THE BID PRICE FOR ITEM 603.7301M.
  - 3) THE ASSUMED GROUND ELEVATION IS TAKEN FROM THE DRAINAGE STRUCTURE TABLE ON DRAWING NO. DD17-3 USING STRUCTURE #19 EXISTING T.G. ELEVATION. CONTRACTOR SHALL VERIFY ALL ELEVATIONS, ITEM 625.01M.
  - 4) REFER TO NYS STANDARD SHEET M603-1.
  - 5) INSTALLATION OF R.C.P. END-SECTION SHALL INCLUDE STONE FILL, ITEM 620.03M, PLACED A.O.B.E.)



FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	293	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED			
<u>AS BUILT REVISIONS</u>			
SIGNATURE		DATE	
INTERSTATE 481 NB AND SB OVER CSX RAILROAD YARD MISCELLANEOUS DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.D1A	REGION 3	DATE 10/02	DRAWING NO. 0017-5

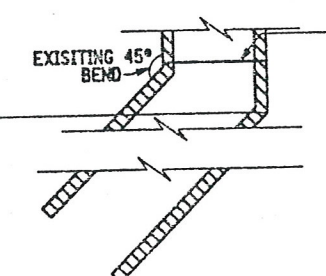
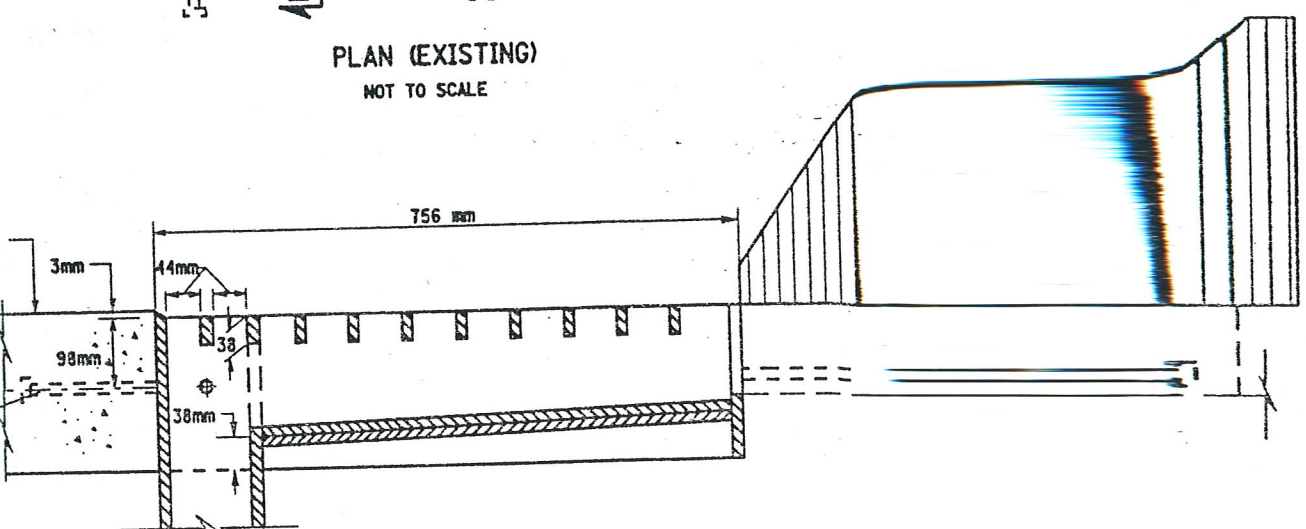
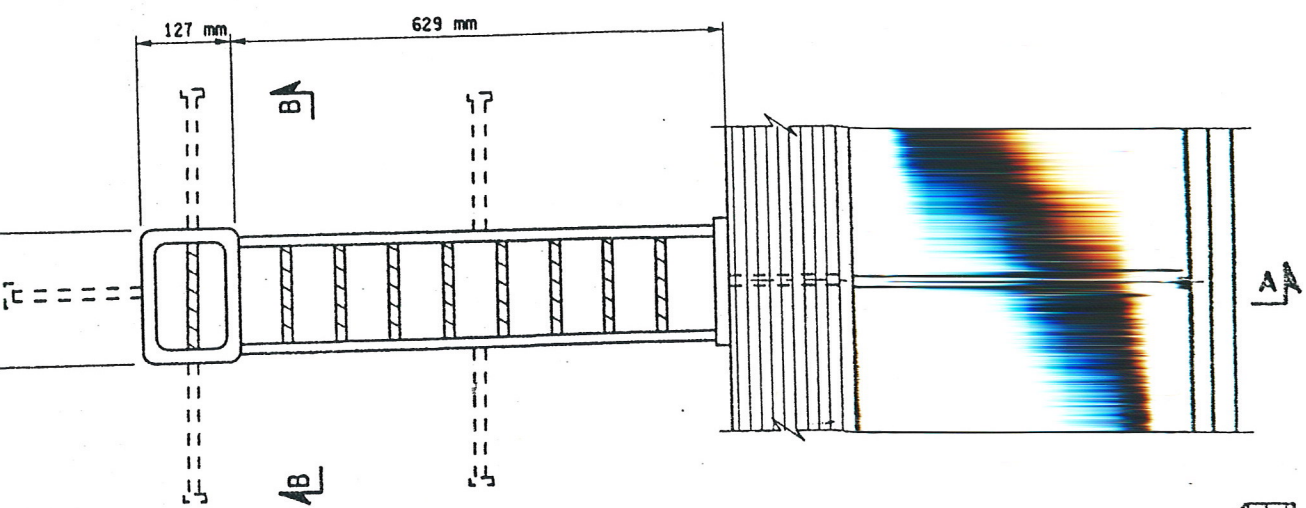


FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	294	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613		B.I.N. 1093571 & 1093572		

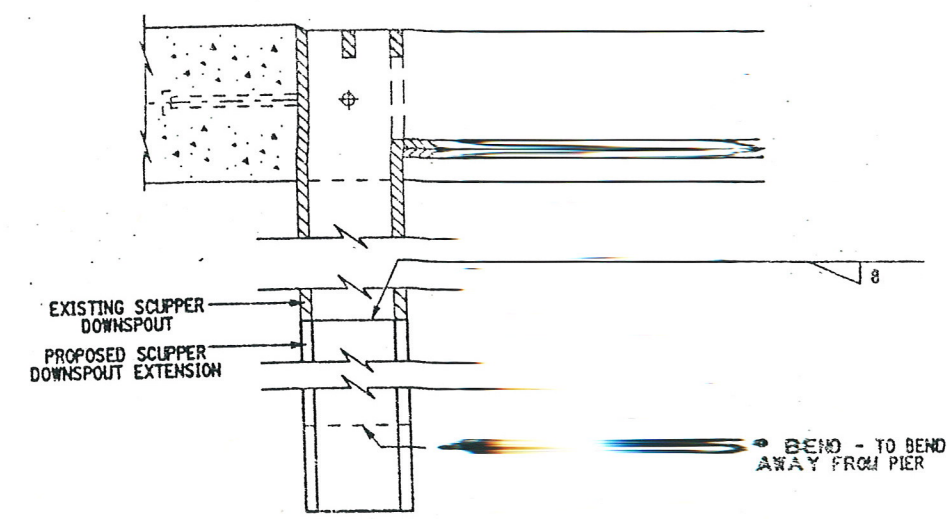
# NOTES:

1) ALL WORK AND MATERIALS NECESSARY FOR SCUPPER ADJUSTMENT AND EXTENSION SHALL BE INCLUDED IN PRICE BID FOR ITEM 590.01M.

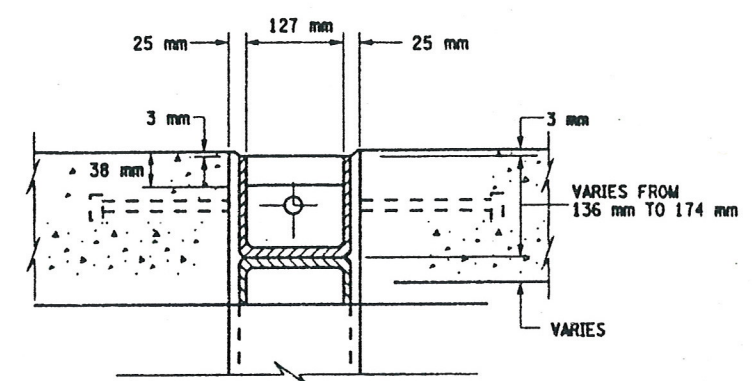
SCUPPER LOCATION TABLE			
	LOCATION	EAST CURB LINE	WEST CURB LINE
SOUTHBOUND BIN 1093571	SOUTH SIDE OF PIER 8	1	1
	SOUTH SIDE OF PIER 10	1	---
	SOUTH SIDE OF PIER 11	1	---
	SOUTH SIDE OF PIER 12	1	---
	SOUTH SIDE OF PIER 13	1	---
	SOUTH SIDE OF PIER 14	1	---
NORTHBOUND BIN 1093572	SOUTH SIDE OF PIER 8	1	1
	SOUTH SIDE OF PIER 9	1	1
	SOUTH SIDE OF PIER 10	1	---
	SOUTH SIDE OF PIER 11	1	---
	SOUTH SIDE OF PIER 12	1	---
	SOUTH SIDE OF PIER 13	1	---
TOTALS		13	3



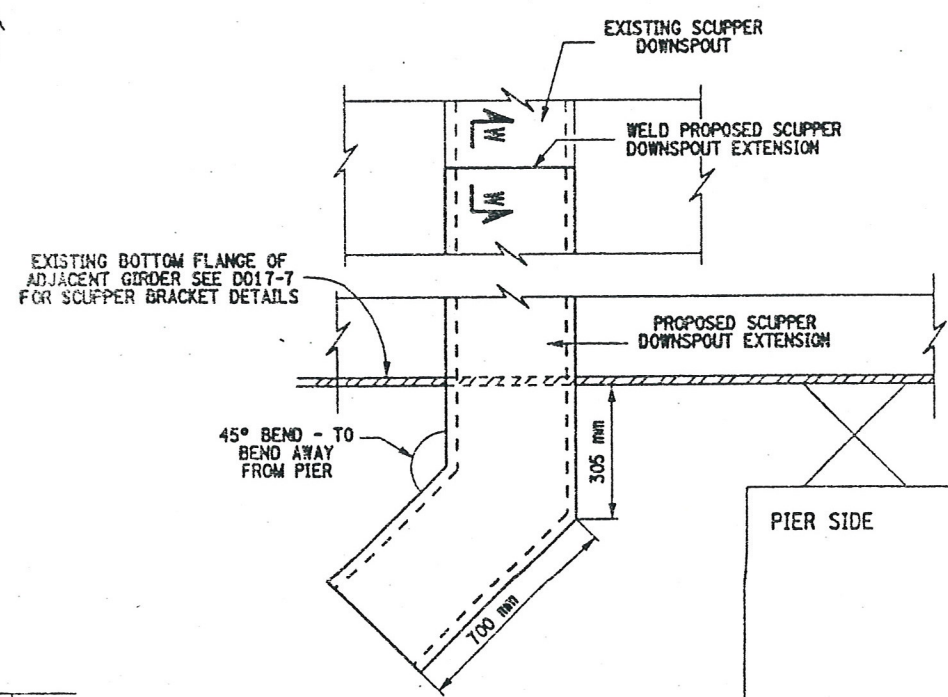
SECTION A-A (EXISTING)  
NOT TO SCALE



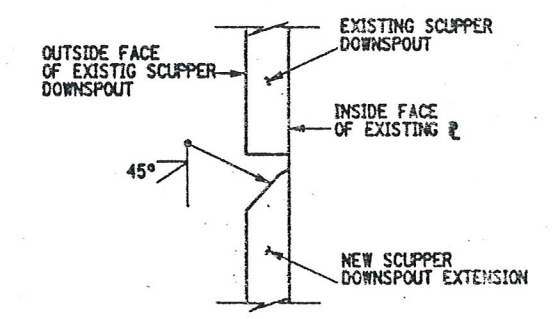
DETAIL B (PROPOSED)  
NOT TO SCALE



SECTION B-B  
NOT TO SCALE



DETAIL A (PROPOSED)  
NOT TO SCALE



SECTION W-W  
NOT TO SCALE

LIST OF ITEMS USED:  
ITEM 590.01M - VERT. ADJUSTMENT OF BRIDGE DRAINAGE DEVICES (EA)

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

INTERSTATE 481 NB AND SB  
OVER  
CSX RAILROAD YARD  
SCUPPER EXTENSIONS

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AE.DS1 REGION 3 DATE 10/02 DRAWING NO. DD17-6

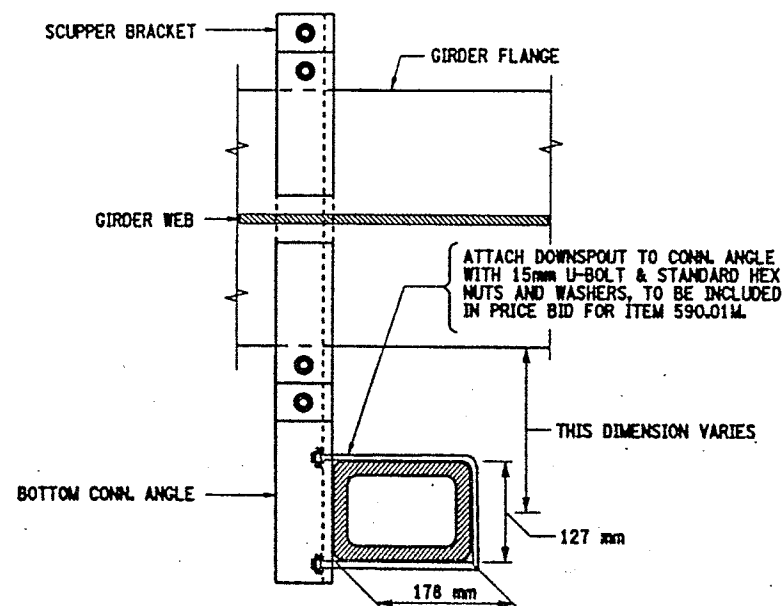


DESIGN SUPERVISOR — JOB MANAGER — DESIGNED BY — CHECKED BY — ESTIMATED BY — DRAFTED BY — CHECKED BY —

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	295	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.J.N. 1093571 & 1093572		

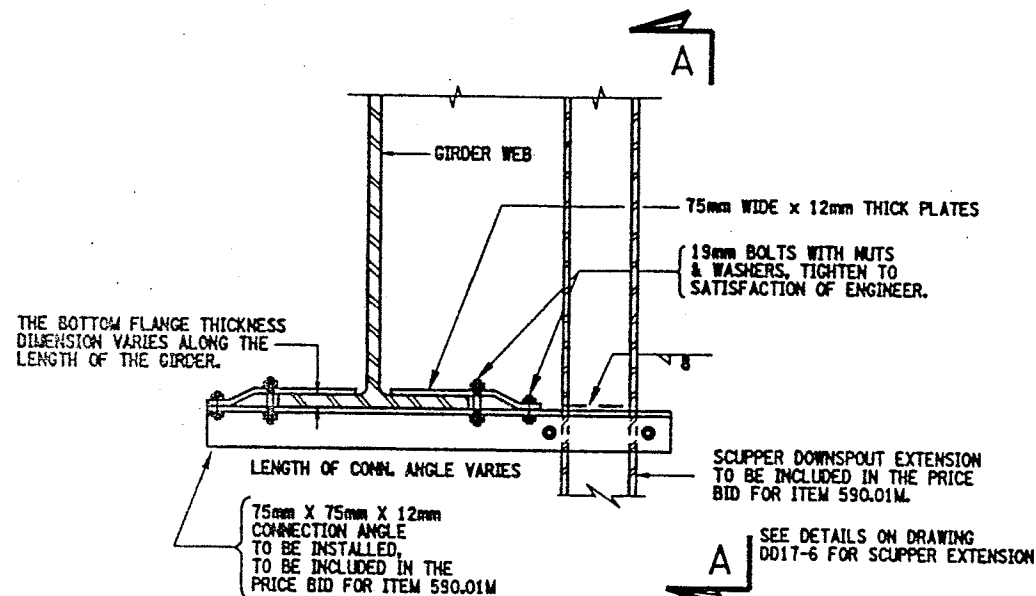
#### NOTES

1. AN APPROVED TYPE OF REMOVABLE DIFFUSER SHALL BE INSTALLED ON ALL OPEN-ENDED SCUPPERS, COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 590.01M.
2. EVERY OPEN DRAINAGE SCUPPER DOWNSPOUT SHALL BE EXTENDED TO 305mm MINIMUM, BELOW THE BOTTOM FLANGE, COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 590.01M.
3. ALL PROPOSED BRACKETS AND CONNECTION HARDWARE SHALL BE FABRICATED FROM ASTM A36M STEEL.
4. ALL PROPOSED BRACKETS SHALL BE SHOP PAINTED PRIOR TO INSTALLATION COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 590.01 M DOWNSPOUT EXCLUDED.
5. NO WELDING TO, OR CUTTING OF, OR DRILLING INTO ANY STRUCTURAL STEEL WILL BE ALLOWED.
6. SCUPPER EXTENSION SHALL BE GALVANIZED IN ACCORDANCE WITH N.Y.S. STD. SPECIFICATIONS SUBSECTION 719-01.



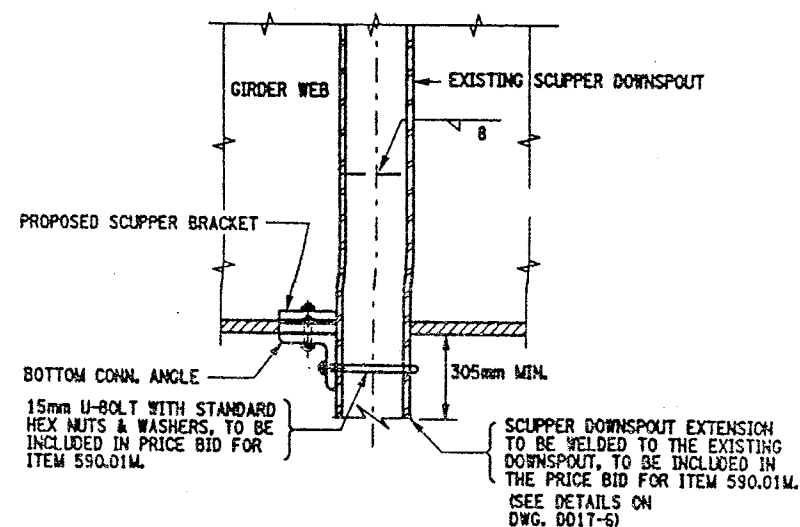
PROPOSED SCUPPER BRACKET DETAILS  
PLAN VIEW

SCALE 1:10



PROPOSED SCUPPER BRACKET DETAILS

SCALE 1:10



PROPOSED SCUPPER BRACKET DETAILS  
SECTION A-A

SCALE 1:10

LIST OF ITEMS USED:

ITEM 590.01M - VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES (EA)

ALL DIMENSIONS ARE IN #1 UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 NB AND SB  
OVER  
CSX RAILROAD YARD  
SCUPPER EXTENSIONS

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION



FILENAME	REGION	DATE	DRAWING NO.
305613AE.DS1	3	10/02	D017-7



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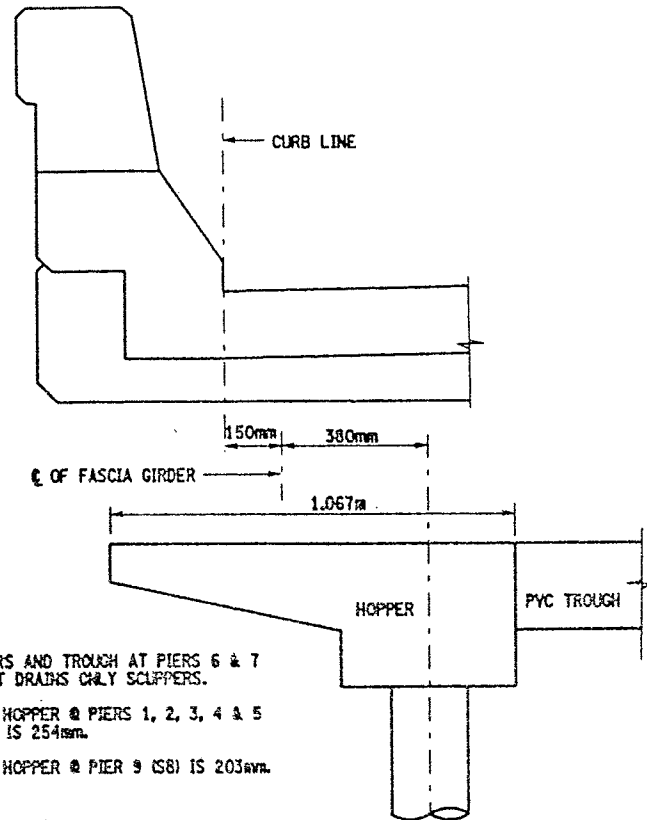
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DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	296	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.L.N. 1093571 & 1093572	



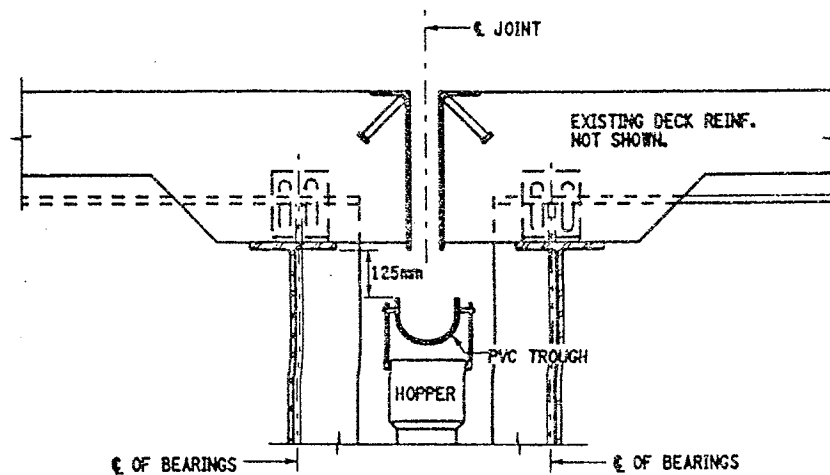
NO HOPPERS AND TROUGH AT PIERS 6 & 7  
DOWNSPOUT DRAINS ONLY SCUPPERS.

WIDTH OF HOPPER @ PIERS 1, 2, 3, 4 & 5  
(NB & SB) IS 254mm.

WIDTH OF HOPPER @ PIER 9 (SB) IS 203mm.

DRAINAGE SYSTEM HOPPER DETAIL  
ELEVATION VIEW

NOT TO SCALE

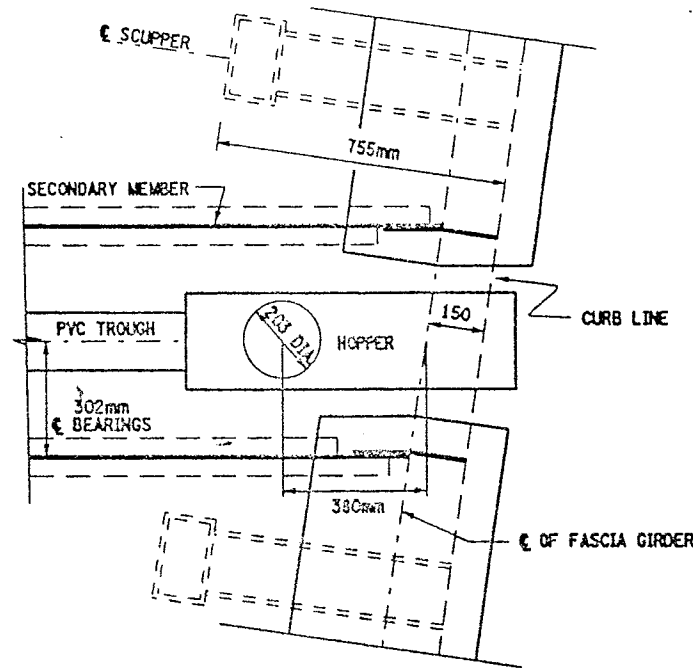


EXISTING PIER  
OPEN JOINT TYPICAL

BIN 1093571 - PIERS 1, 2, 3, 4, 5 & 9  
BIN 1093572 - PIERS 1, 2, 3, 4 & 5

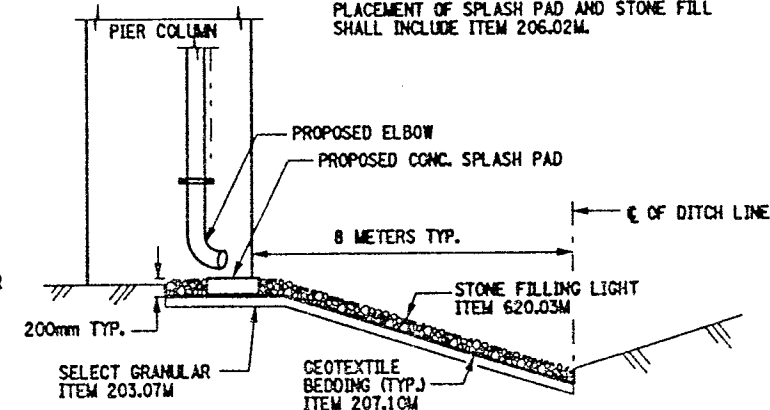
NOT TO SCALE

CLEAN DRAINAGE STRUCTURE  
ITEM 203.19M.



PLAN VIEW OF DRAINAGE DETAIL

NOT TO SCALE



MISC. SPLASH PAD AND STONE FILL DETAIL

NOT TO SCALE

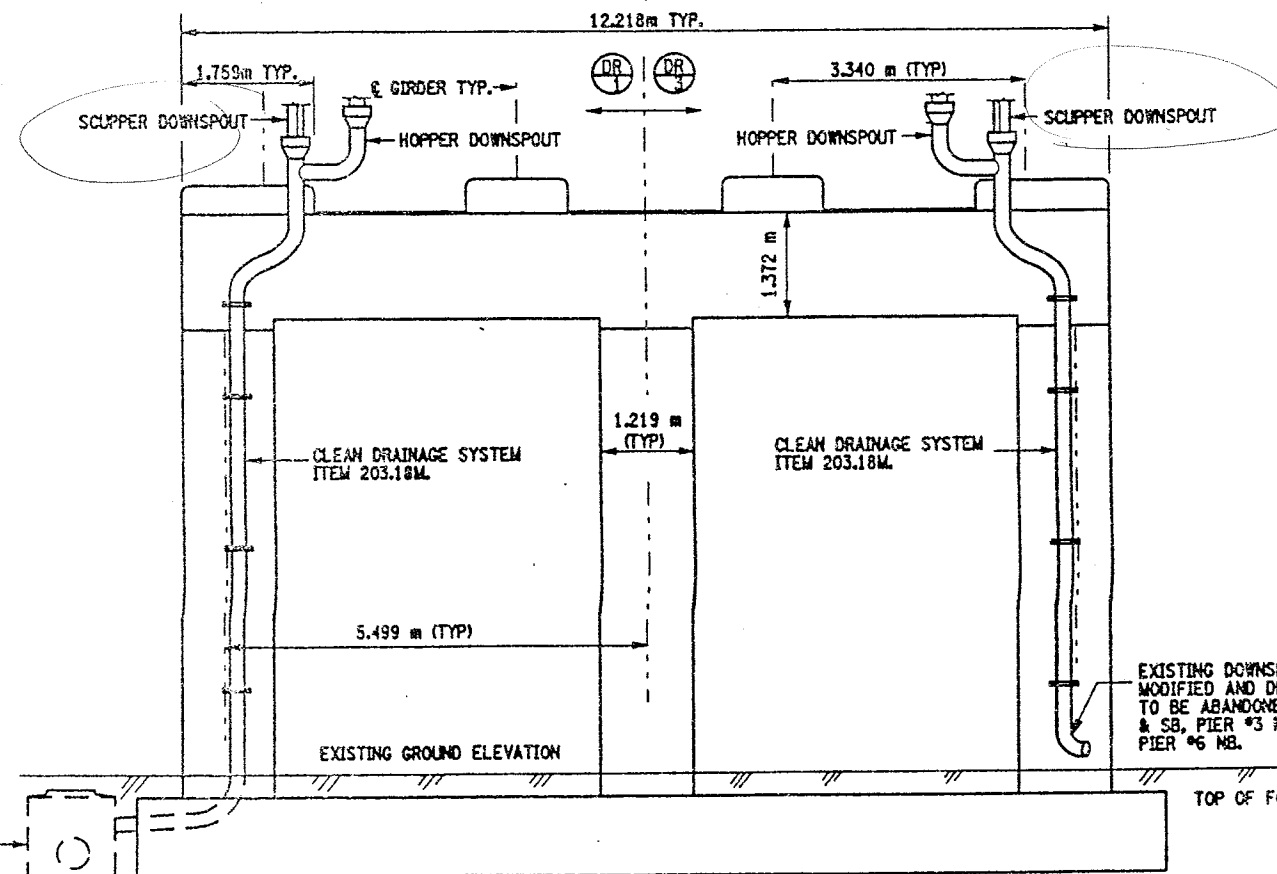
#### NOTES:

SPLASH PAD & STONE FILLING TO BE PLACED  
AT EACH MODIFIED DOWNSPOUT LOCATION  
(PIER'S 2 & 3). STONE FILL SHALL BE PLACED  
FROM SPLASH PAD TO C OF DITCH LINE.

TYPICAL WIDTH OF STONE FILLING 900mm.

PROPOSED STONE FILL SLOPE TO MATCH  
EXISTING SLOPE.

PLACEMENT OF SPLASH PAD AND STONE FILL  
SHALL INCLUDE ITEM 206.02M.



TYPICAL PIER DETAIL

NOT TO SCALE

#### CLEAN DRAINAGE SYSTEM NOTE:

THE FOLLOWING CLOSED DRAINAGE SYSTEMS SHALL BE CLEANED  
UNDER THIS CONTRACT.

BIN 1093571 - PIERS 1, 2, 3, 4, 5, 6 & 9  
BIN 1093572 - PIERS 1, 2, 3, 4, 5 & 6

NOTE, PIER #6 (BOTH STRUCTURES) THE TYPE OF BRIDGE JOINT  
IS AN ARMORED JOINT WITH COMPRESSION SEAL. THE DOWNSPOUTS  
ARE CONNECTED TO THE BRIDGE SCUPPERS.

THE CLEANING OF THE EXISTING DRAINAGE SYSTEM (ITEM 203.18M  
SHALL BE FROM HOPPER (FASCIA GIRDER) TO HOPPER (FASCIA  
GIRDER) AND SHALL INCLUDE THE PVC TROUGH AND THE ENTIRE  
DOWNSPOUT SYSTEM (DIA. OF DOWNSPOUTS VARY) FROM HOPPERS  
TO OUTLET. REFER TO DWG. NO. D017-1 THRU DWG. NO. D017-4  
FOR DRAINAGE DETAILS AND PROPOSED MODIFICATIONS TO PIER  
DOWNSPOUTS.

FOR QUANTITIES OF ITEMS SEE DRAINAGE RUN TABLE  
ON DRAWING NO. D017-3.

CONTRACTOR SHALL TAKE CARE WHEN PERFORMING CLEANING  
OPERATION NOT TO DAMAGE THE EXISTING DRAINAGE SYSTEM.  
ANY DAMAGE CAUSED BY CONTRACTOR'S OPERATIONS SHALL BE  
REPAIRED OR REPLACED AS DEEMED NECESSARY BY THE ENGINEER  
AT NO ADDITIONAL COST TO THE STATE.

DRAINAGE RUN TABLE ON DWG. NO. D017-3, THE DRAINAGE  
TROUGH'S ARE DIVIDED AT MID-PIER OF PIER.

SEE ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 FOR EXISTING PIER  
ELEVATIONS.

SEE DRAWING NO. D017-4 FOR PROPOSED PIER DOWNSPOUT DETAILS.

#### ITEMS USED:

ITEM 203.07M - SELECT GRANULAR FILL, 60M  
ITEM 207.10M - GEOTEXTILE BEDDING, 15M  
ITEM 203.18M - CLEAN CLOSED DRAINAGE SYSTEMS (NB  
ITEM 203.19M - CLEAN DRAINAGE STRUCTURES & MANHOLES (SA)  
ITEM 620.03M - STONE FILL, LIGHT, 60M

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 OVER CSX RR YARD	
DRAINAGE CLEANING DETAILS	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.DS1	REGION 3
DATE 10/02	DRAWING NO. D017-8



CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER



DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	297	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

#### NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. SEE DWG. PR17-25 FOR SECTIONS A-A, B-B, D-D, E-E AND F-F.
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
10. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

#### LEGEND:

-  ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
-  ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

#### BRIDGE BEARING RESTORATION NOTES:

1. BRIDGE BEARING RESTORATION ITEM 15565.4302M SHALL INCLUDE ALL DESIGNATED WORK AS PER THE SPECIFICATION.
2. STRUCTURAL LIFTING SHALL BE USED WITH ALL EXPANSION BEARING RESTORATION.
3. IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER SPAN (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARINGS), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN SPECIFICATIONS SECTION 585-STRUCTURAL LIFTING OPERATIONS.
4. BEARING RESTORATION SHALL AS A MINIMUM AND IN ALL CASES INCLUDE REPLACEMENT OF BRONZE PLATE.
5. FIXED BEARING TO BE CLEANED IN PLACE. DO NOT DISASSEMBLE.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

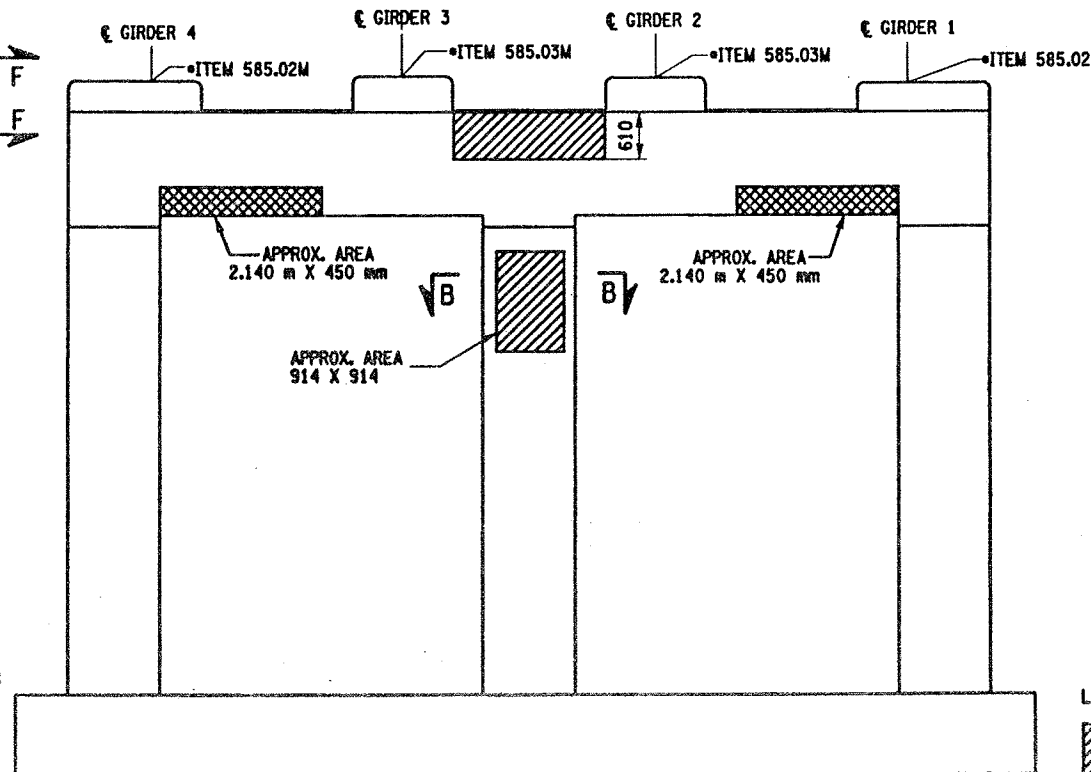
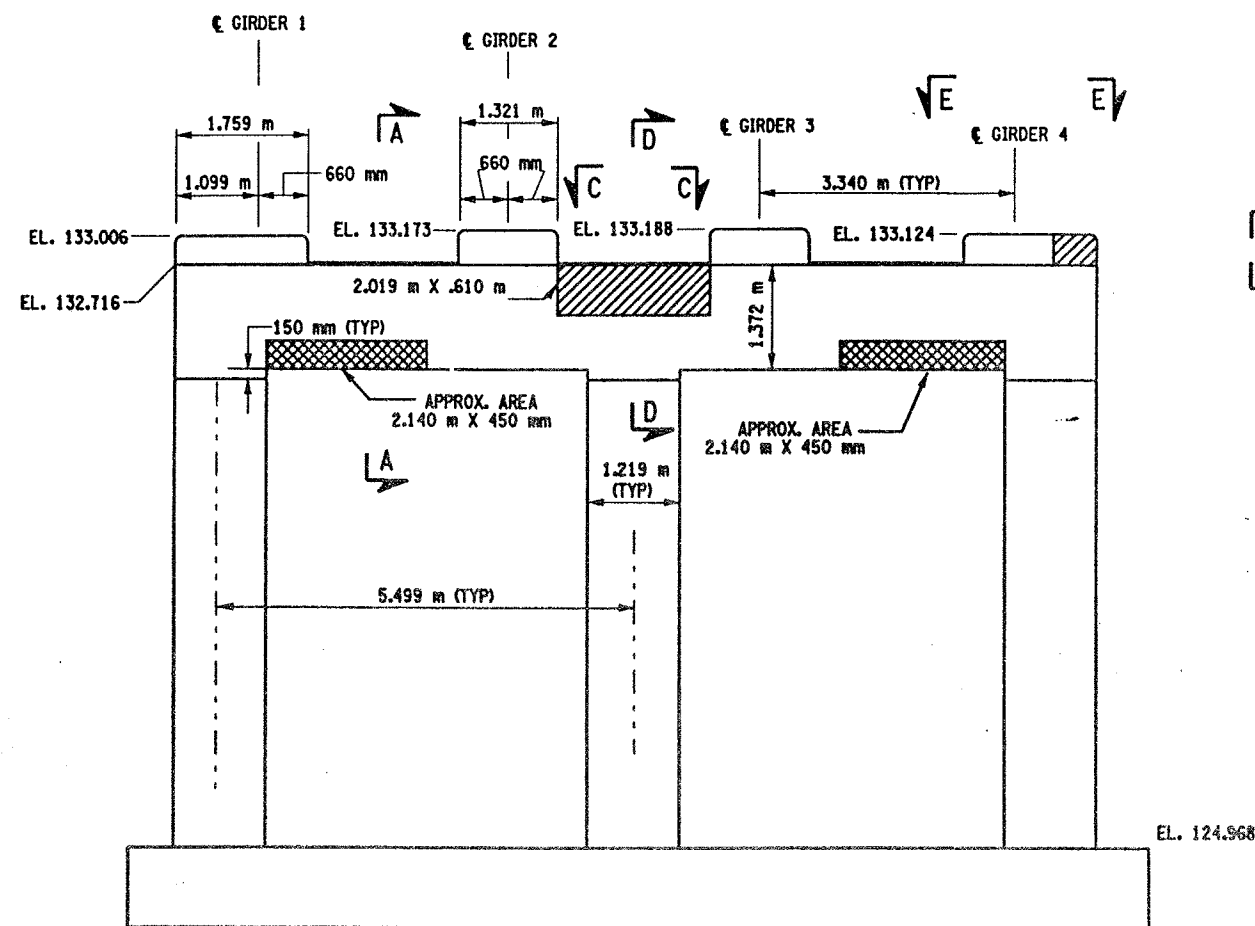
SIGNATURE DATE

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 1



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AE.P1A	REGION 3	DATE 10/02	DRAWING NO. PR17-1S
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#### JACKING NOTES:

THE METHOD OF LIFTING SHALL BE APPROVED BY THE DEPUTY CHIEF ENGINEER (STRUCTURES), DSES, TWO WEEKS PRIOR TO THE START OF THE WORK.

NO LIFTING WILL BE ALLOWED UNTIL ALL TEMPORARY SUPPORTS ARE SECURED.

WHEN POSSIBLE, THERE WILL BE NO LIVE LOAD DURING LIFTING.

LIFTING SHALL BE CONFINED TO ONE END OF A SPAN AT ANY ONE TIME.

IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER PIER (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARING), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN THE SPECIFICATION SECTION 585-STRUCTURAL LIFTING OPERATIONS.

WHERE THE CONTRACTOR IS REQUIRED TO PERFORM BEARING RESTORATION (SEE BR-11) AS WELL AS CONCRETE REPAIRS REQUIRING STRUCTURAL LIFTING, ONLY ONE STRUCTURAL LIFTING PAYMENT WILL BE MADE.

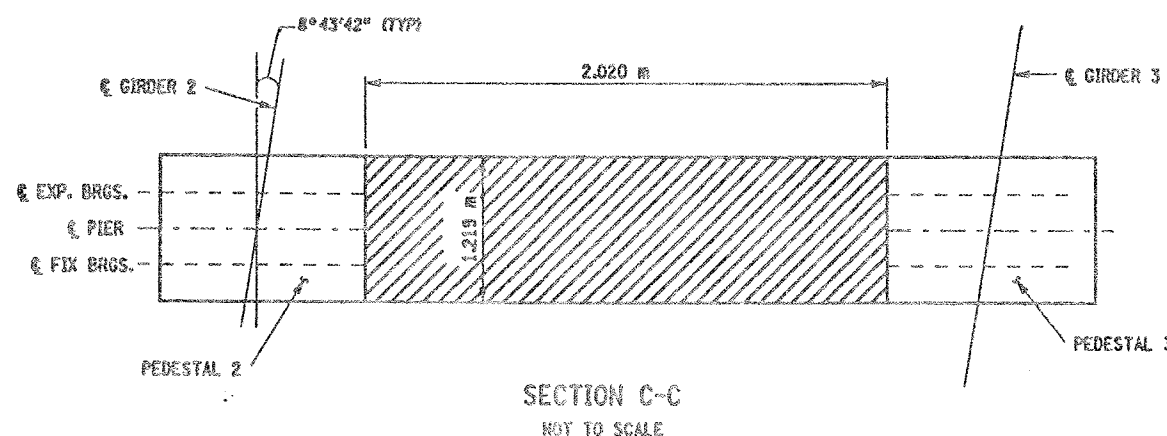
\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

#### JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

#### LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (EA)



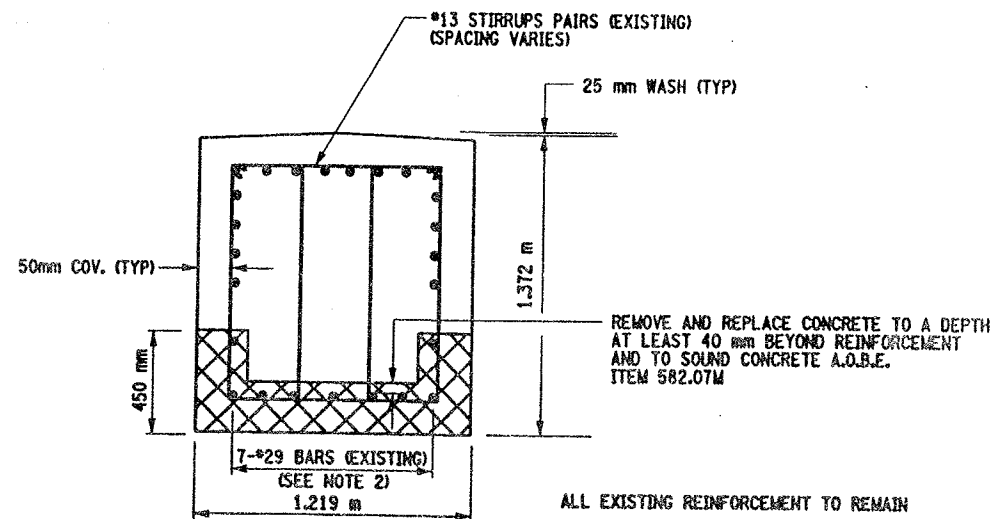


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JOB MANAGER  
DESIGN SUPERVISOR

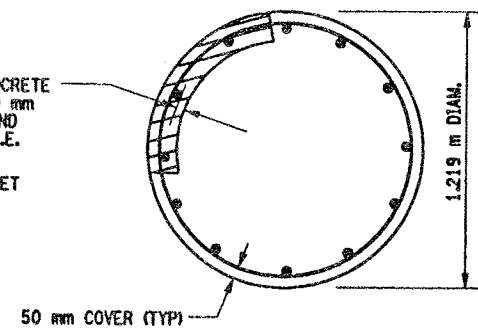
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	298	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.J.N. 1093571	

NOTES:

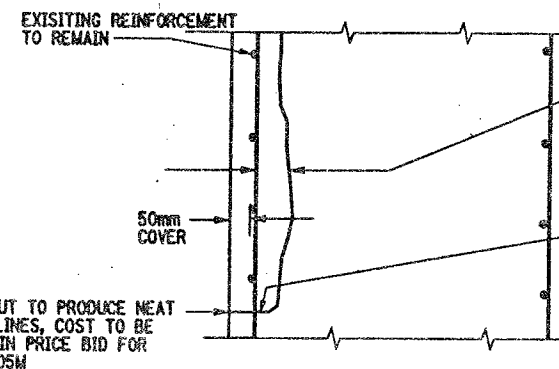
1. ALL CONCRETE REMOVAL OPERATIONS SHALL INCLUDE SAW CUTTING TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN PRICE BID FOR THE APPROPRIATE REMOVAL ITEM.
2. THE REINFORCEMENT SHOWN IS TYPICAL FOR PIER #1. THE NUMBER AND OR SIZE OF REINFORCEMENT IN OTHER PIERS MAY VARY.
3. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
4. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.



REMOVE AND REPLACE CONCRETE TO A DEPTH AT LEAST 40 mm BEYOND REINFORCEMENT AND TO SOUND CONCRETE A.O.B.E. ITEM 582.05M  
SEE DETAIL "A" THIS SHEET



THE CONTRACTOR SHALL ONLY REMOVE AND REPLACE CONCRETE ON 1/4 OF THE CIRCUMFERENCE OF THE COLUMN SIMULTANEOUSLY, FOR THE FULL CURING PERIOD.



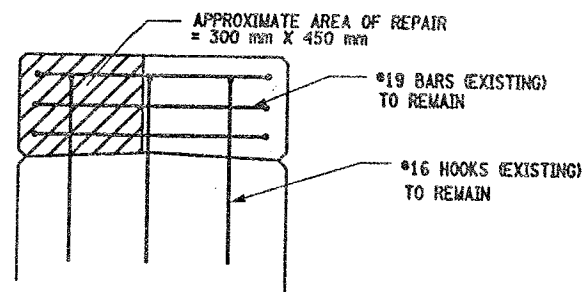
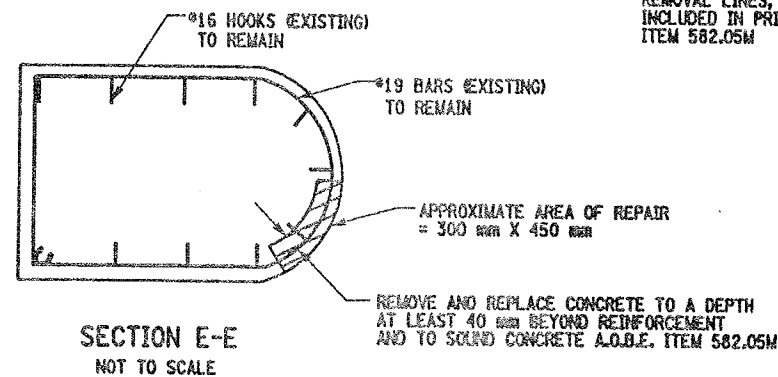
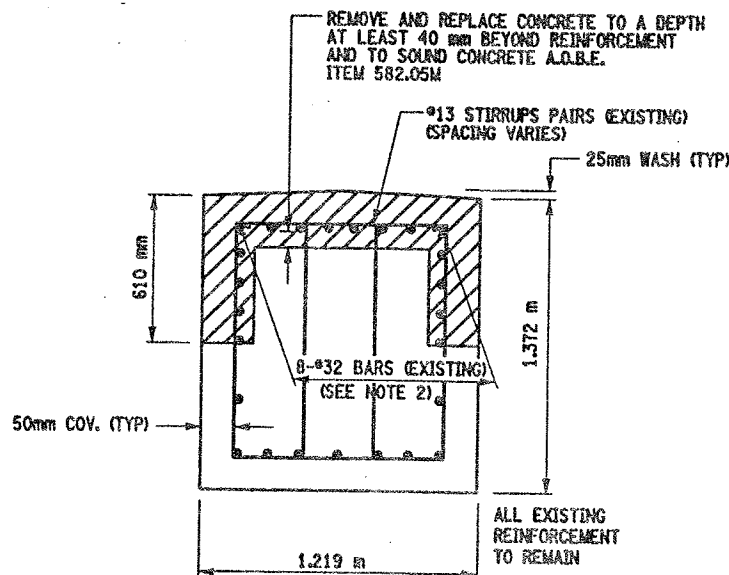
LEGEND:



ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)



ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)



LIST OF ITEMS USED:

ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 1

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION



FILENAME: 305613AE.P1A REGION: 3 DATE: 10/02 DRAWING NO.: PR17-25

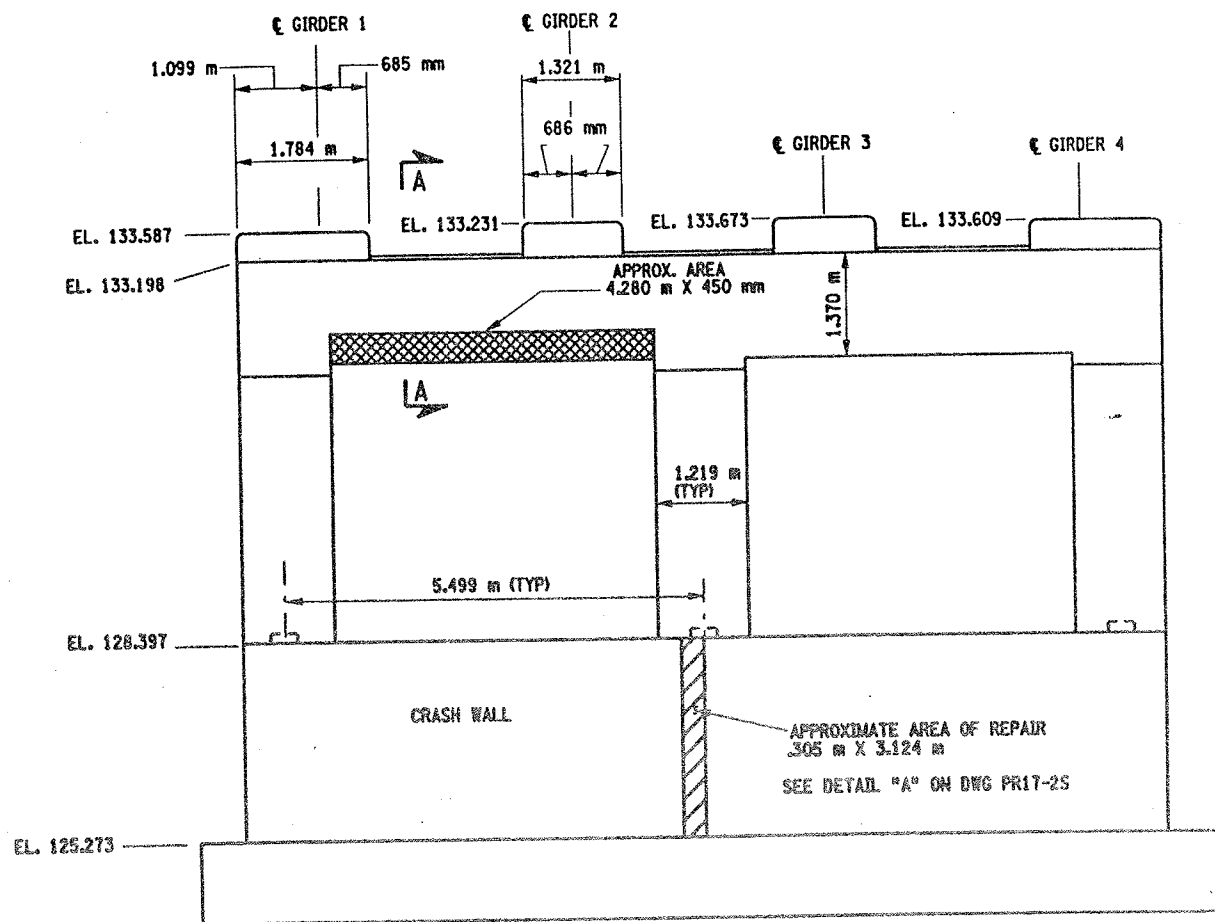


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DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	299	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

NOTES:

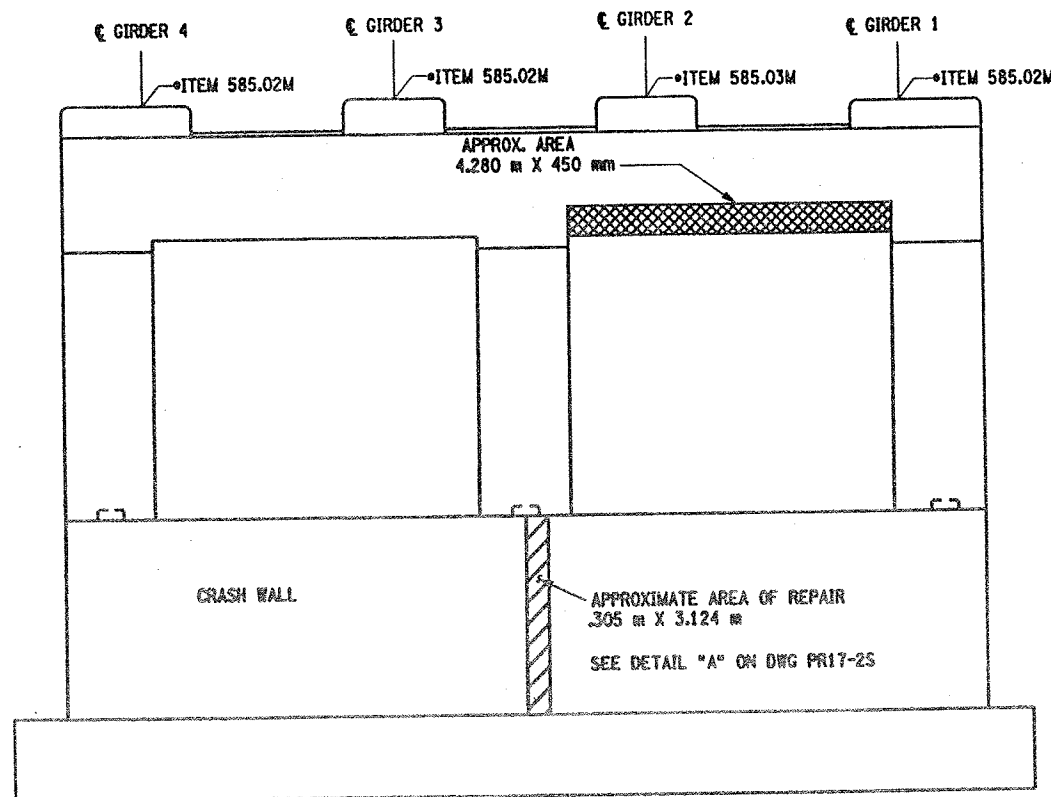
1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS), SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
8. SEE DWG. PR17-2S FOR SECTION A-A AND DETAIL "A".
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
10. FOR JACKING NOTES SEE DWG. PR17-1S
11. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BE FOR VARIOUS OTHER ITEMS OF CONTRACT.



PIER 2 - FRONT FACE (LOOKING NORTH)

BIN 1093571

SCALE: 1 TO 50



PIER 2- BACK FACE (LOOKING SOUTH)

BIN 1093571

SCALE: 1 TO 50

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (C10)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (S10)

LIST OF ITEMS USED

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MATL (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 2

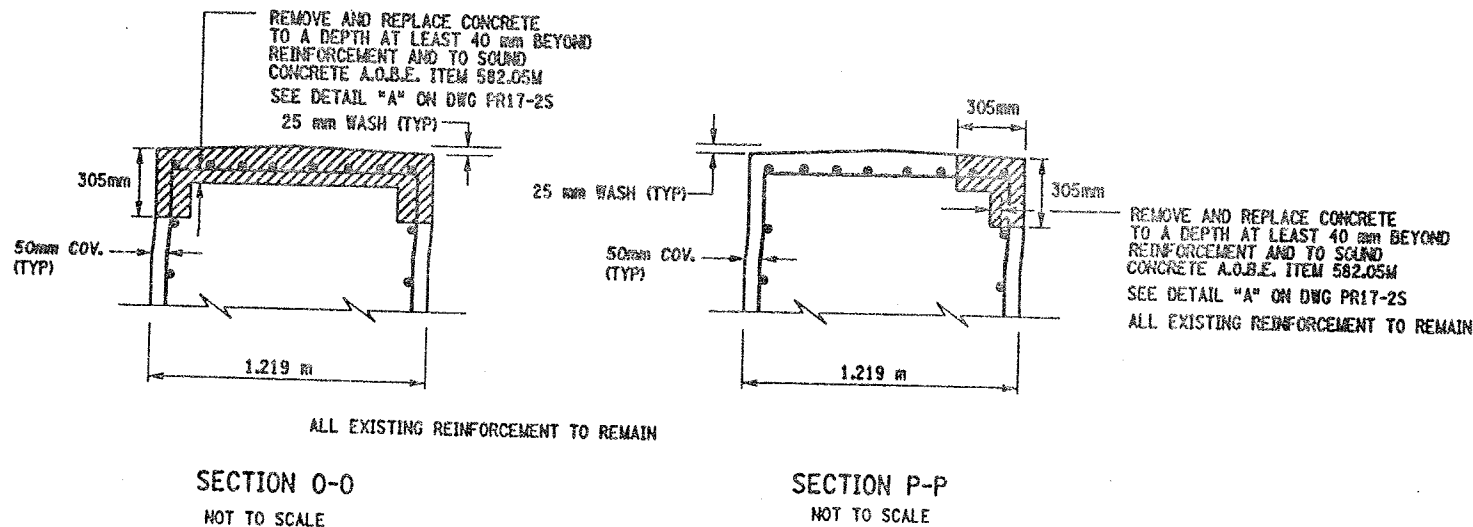
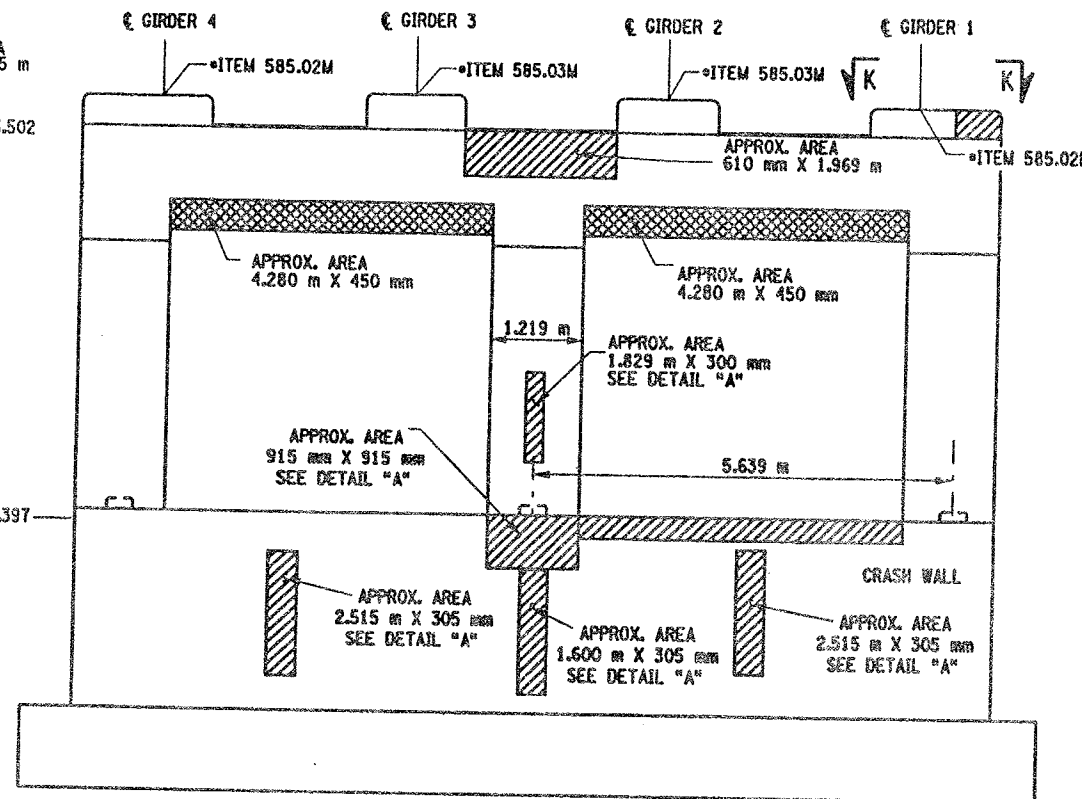
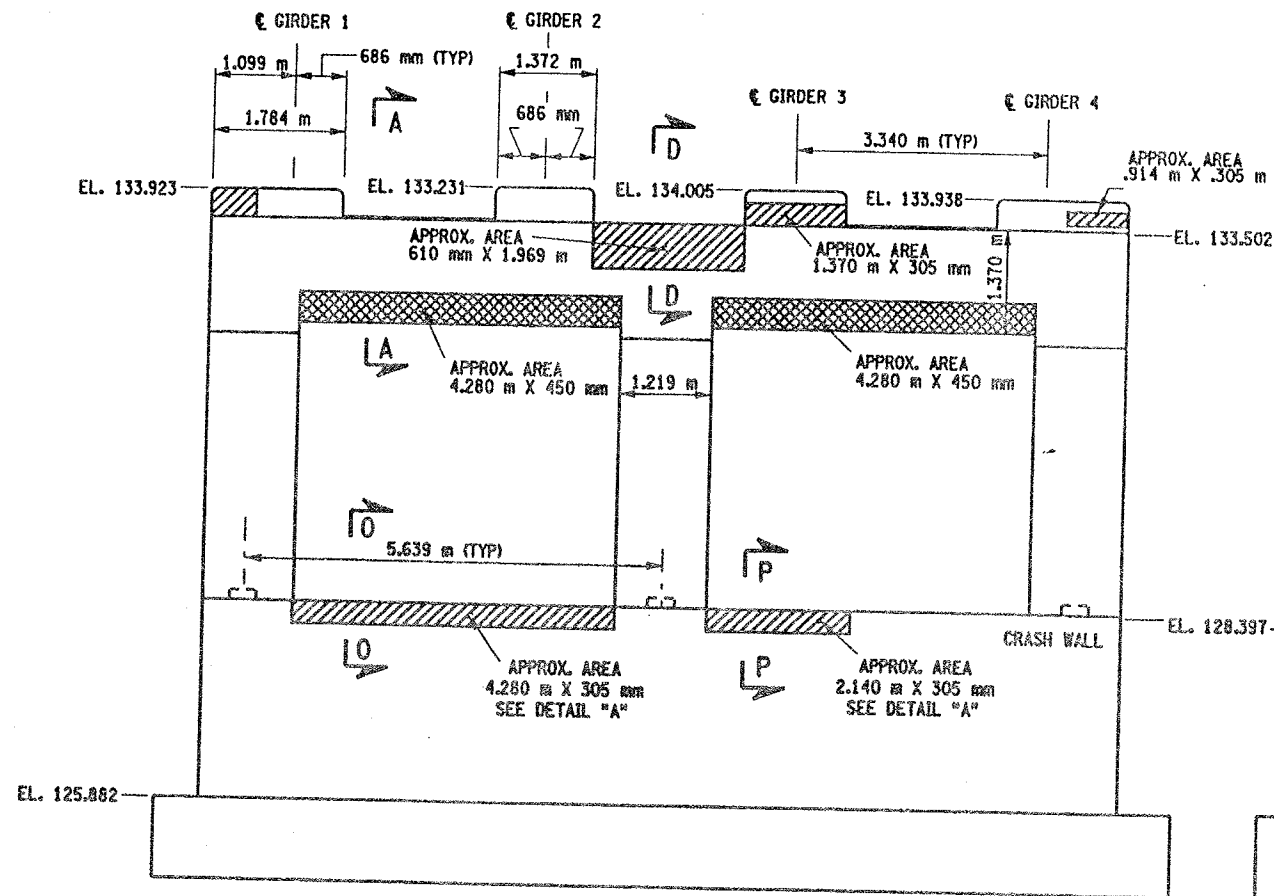


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME: 305613AE.P2A REGION: 3 DATE: 10/02 DRAWING NO.: PR17-3S



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CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	300	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571		

NOTES:

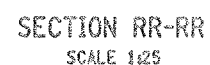
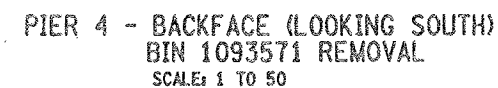
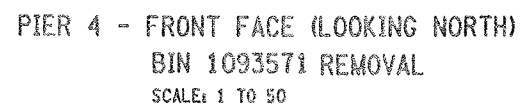
- ALL REINFORCEMENT TO REMAIN.
- RESTORE TO ORIGINAL DIMENSIONS.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
- ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.L.S.H. TO-T AND ARE FOR REFERENCE ONLY.
- REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
- PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
- SEE DWG. PR17-2S FOR SECTIONS A-A, D-D AND DETAIL "A".
- SEE DWG. PR17-2N FOR SECTION K-K.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
- FOR JACKING NOTES SEE DWG. PR17-1S.
- CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDISTALS AND TOP OF CAPBEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE	DATE		
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 3			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P3A	REGION 3	DATE 10/02	DRAWING NO. PR17-4S





1. ALL REINFORCEMENT TO REMAIN, (EXCEPT PEDESTAL REINFORCEMENT AND CAPBEAM REINFORCEMENT). THE VERTICAL REINFORCEMENT IN THE CAPBEAMS-ORIGINATING FROM THE COLUMNS SHALL REMAIN.
2. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
3. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
4. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
5. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
6. SEE DWG. PR17-4N FOR SECTION Q-Q.
7. SEE DWG. PR17-2N FOR SECTION J-J.
8. SEE DWG. PR17-4S FOR SECTION Q-Q.
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
10. FOR JACKING NOTES SEE DWG. PR17-1S
11. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
12. SEE BR-1 AND BR-2 FOR BEARING TABLE AND BEARING DETAILS.



JACKING LOADS:  
D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)  
ITEM 582.05M - REM. OF STRUC. CONC. ~ REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)  
ITEM 589.520001M - REMOVAL OF EXISTING STEEL (EA)

LEGEND:

REPAIR:		ITEM 582.05W - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
REPLACEMENT:		ITEM 580.01W - REMOVAL OF STRUCTURAL CONCRETE - (CM) (COMPLETE REMOVAL)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 4  
REMOVAL DETAILS

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P4A	3	10/02	PR17-SS

DESIGN SUPERVISOR \_\_\_\_\_ JOB MANAGER \_\_\_\_\_ DESIGNED BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_ ESTIMATED BY \_\_\_\_\_ DRAFTED BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_

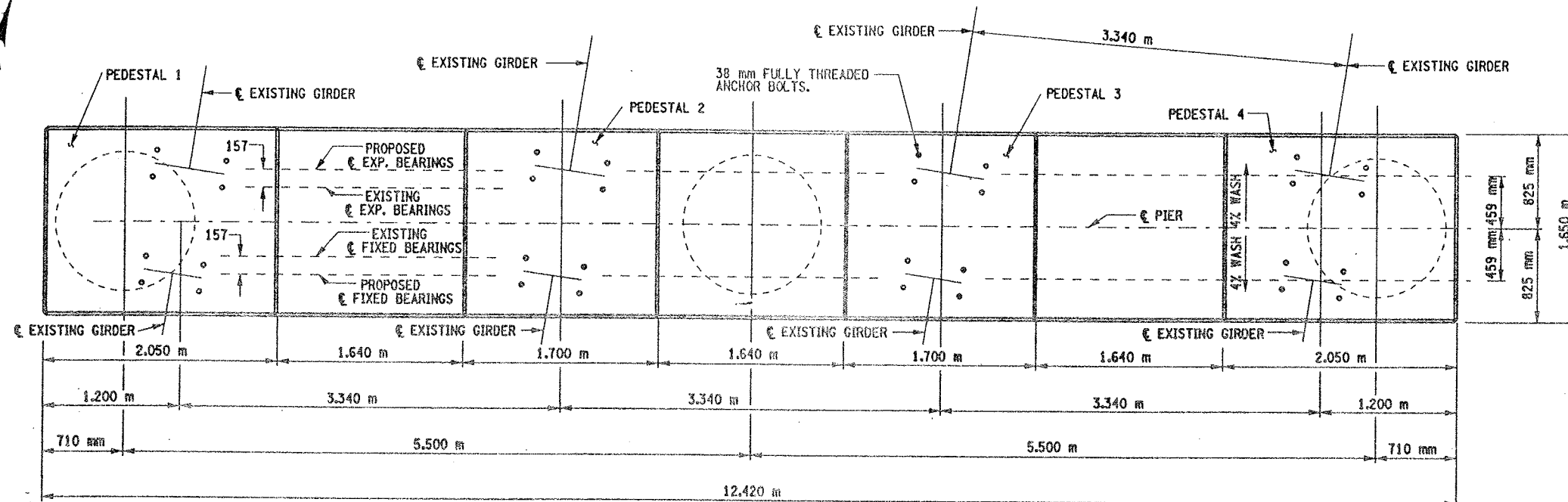


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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	302	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613			B.I.N. 1093571	

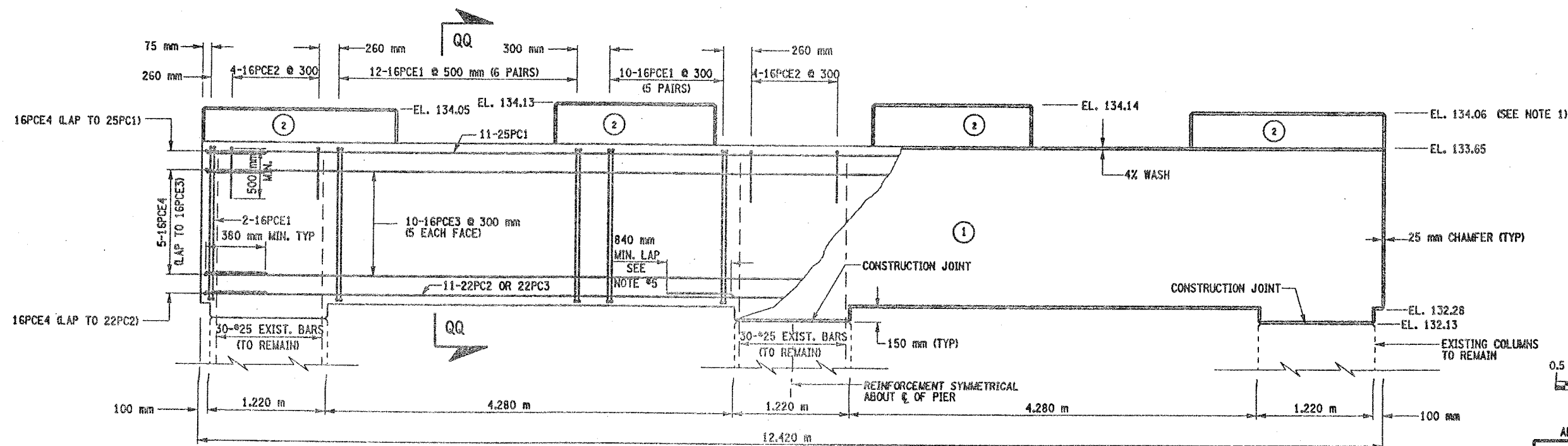
NOTES:

1. THESE ELEVATIONS MAY HAVE TO BE ADJUSTED TO ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES IN THE BEARINGS WHICH MAY AFFECT THE PEDESTAL ELEVATIONS OR DIMENSIONS.
2. SEE DWG PR17-TS FOR ANCHOR BOLT LAYOUT, PEDESTAL REINFORCEMENT DETAILS, SECTION QQ-QQ, AND CHAMFER DETAIL.
3. SEE DWG. NO. BL-6 FOR BAR LIST AND BAR BENDING DIAGRAMS.
4. SEE BR-1 AND BR-2 FOR BEARING DETAILS.
5. REINF. BAR LAPS, IF REQUIRED SHALL BE STAGGERED SO NO MORE THAN 50% OF THE BARS ARE LAPPED AT ANY ONE LOCATION.



PROPOSED PLAN

SCALE 1:25



(NO.) INDICATES CONCRETE PLACEMENT NUMBER

PROPOSED ELEVATION

SCALE 1:25

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	5.46	555.09M
2	28.60	555.09M

LIST OF ITEMS USED:

ITEM 555.09M - CONCRETE FOR STRUCTURES, CLASS HP (CM)  
ITEM 556.0201M - UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUC. (KG)  
ITEM 556.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUC. (KG)



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 4



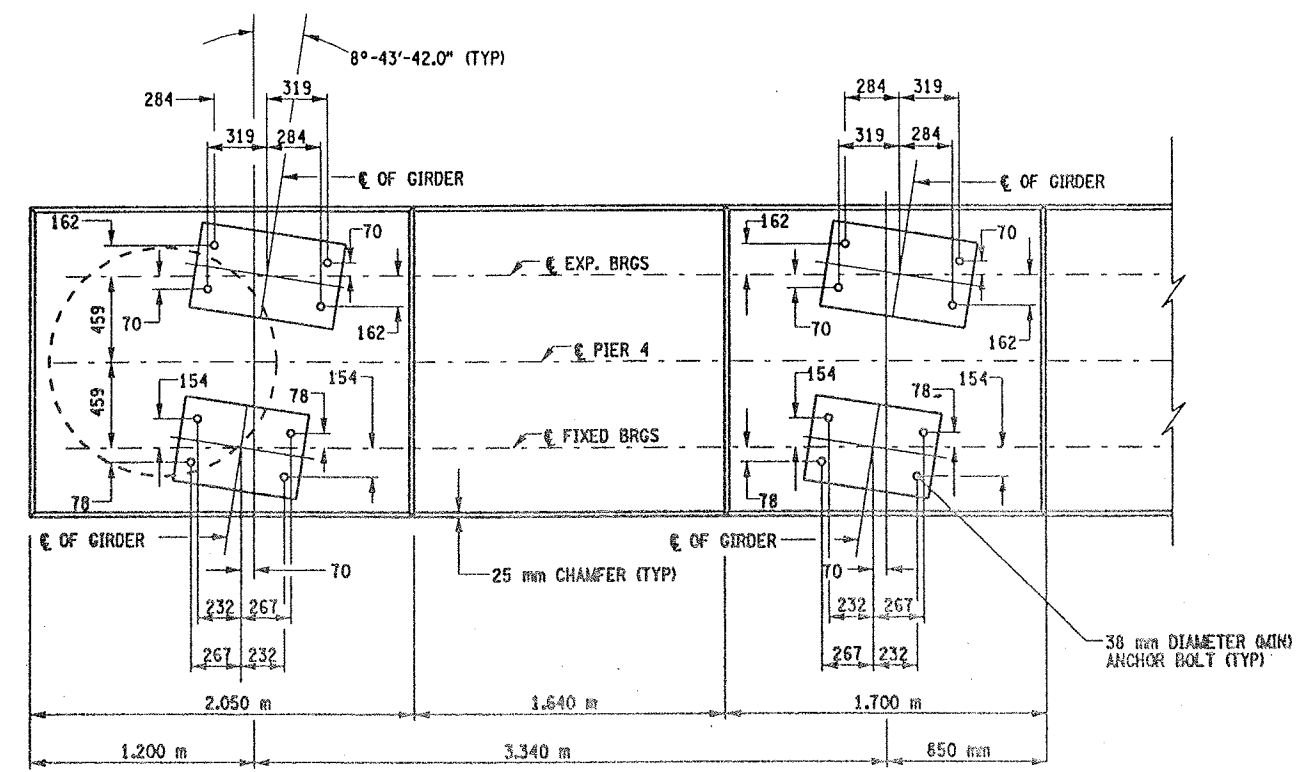
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.  
305613AE.P4A 3 10/02 PR17-6S

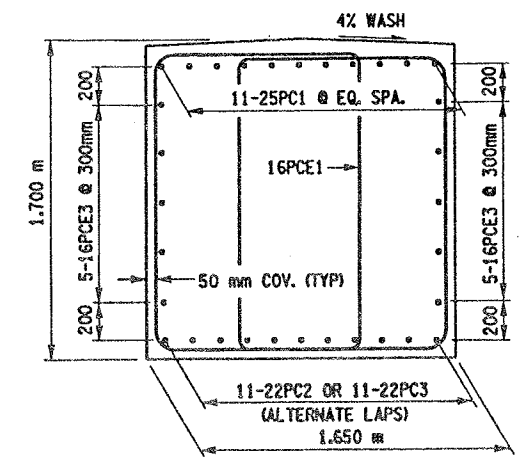


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CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
		D259214	303	432
1	N.Y.			
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613			B.I.N. 1093571	



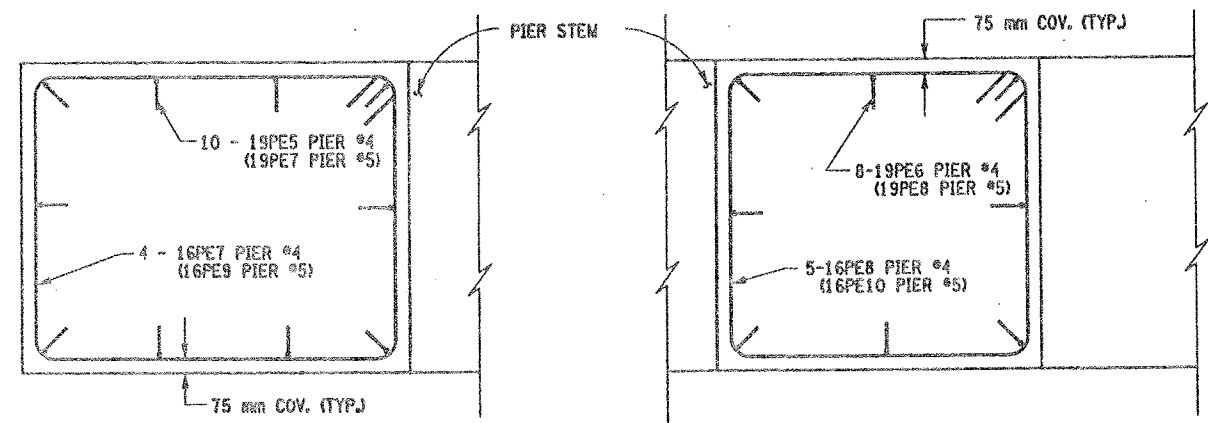
ANCHOR BOLT LAYOUT  
SCALE 1:20



SECTION QQ-QQ  
SCALE 1 TO 20

NOTES:

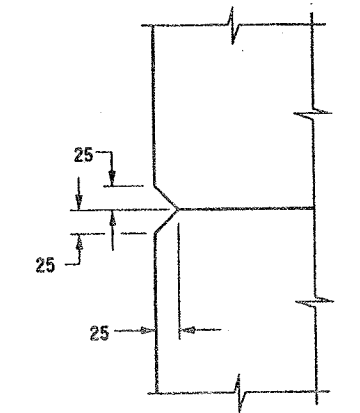
1. SEE DWG. NO. BL-6 FOR BAR LIST AND BAR BENDING DIAGRAM.
2. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
3. SEE BR-1 AND BR-2 FOR BEARING DETAILS.
4. SAME BAR MARKS SHALL APPLY FOR BOTH PIERS.



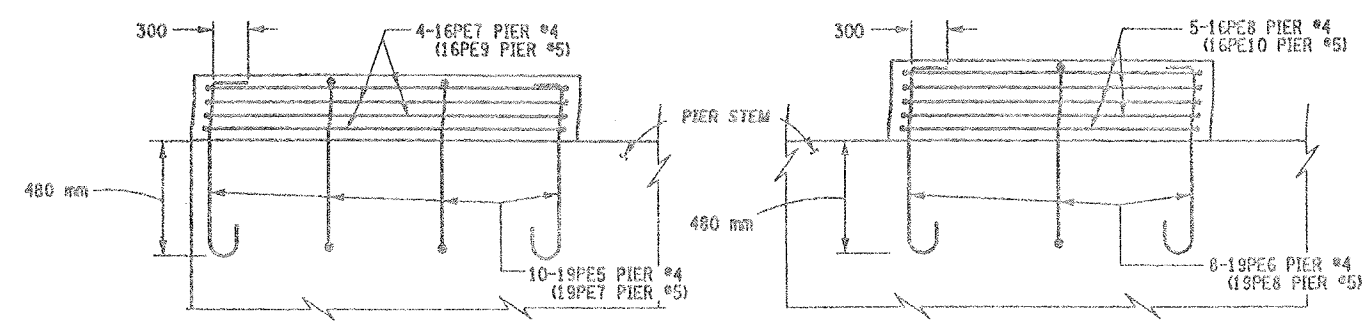
PEDESTALS 1 & 4

PEDESTALS 2 & 3

PEDESTAL REINFORCEMENT (PLAN)  
SCALE 1:20



CHAMFER DETAIL  
NOT TO SCALE



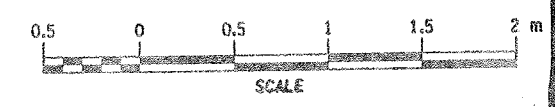
PEDESTALS 1  
(PEDESTAL 4 SIMILAR)

PEDESTALS 2 & 3

PEDESTAL REINFORCEMENT (ELEVATION)  
SCALE 1:20

LIST OF ITEMS USED:

- ITEM 555.09M - CONCRETE FOR STRUCTURES, CLASS HP (CM)
- ITEM 556.0201M - INCOATED BAR REINFORCEMENT FOR CONCRETE STRUC. (KG)
- ITEM 556.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUC. (KG)
- ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)



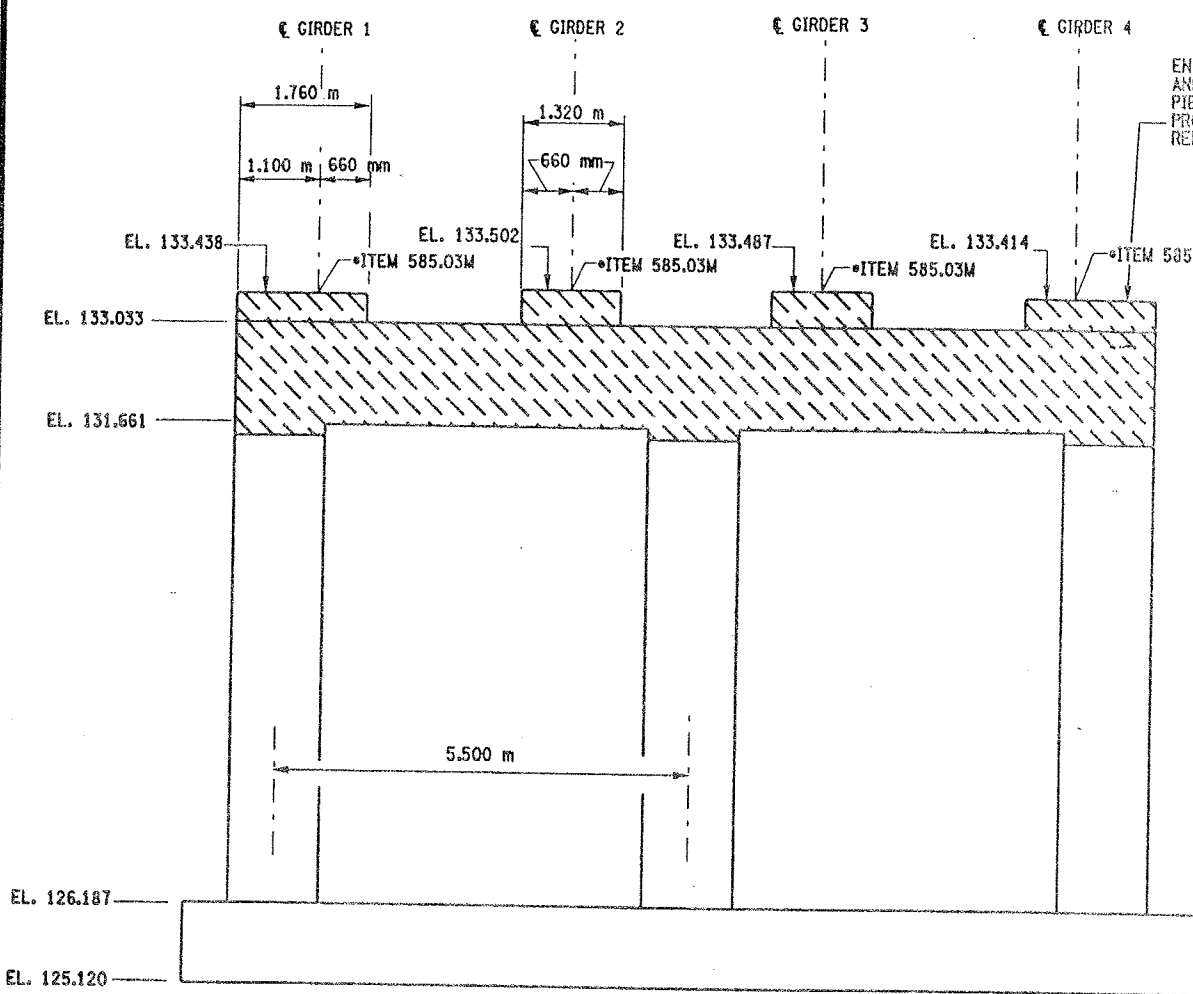
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIERS 4 & 5			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P4A	REGION 3	DATE 10/02	DRAWING NO. PR17-7S



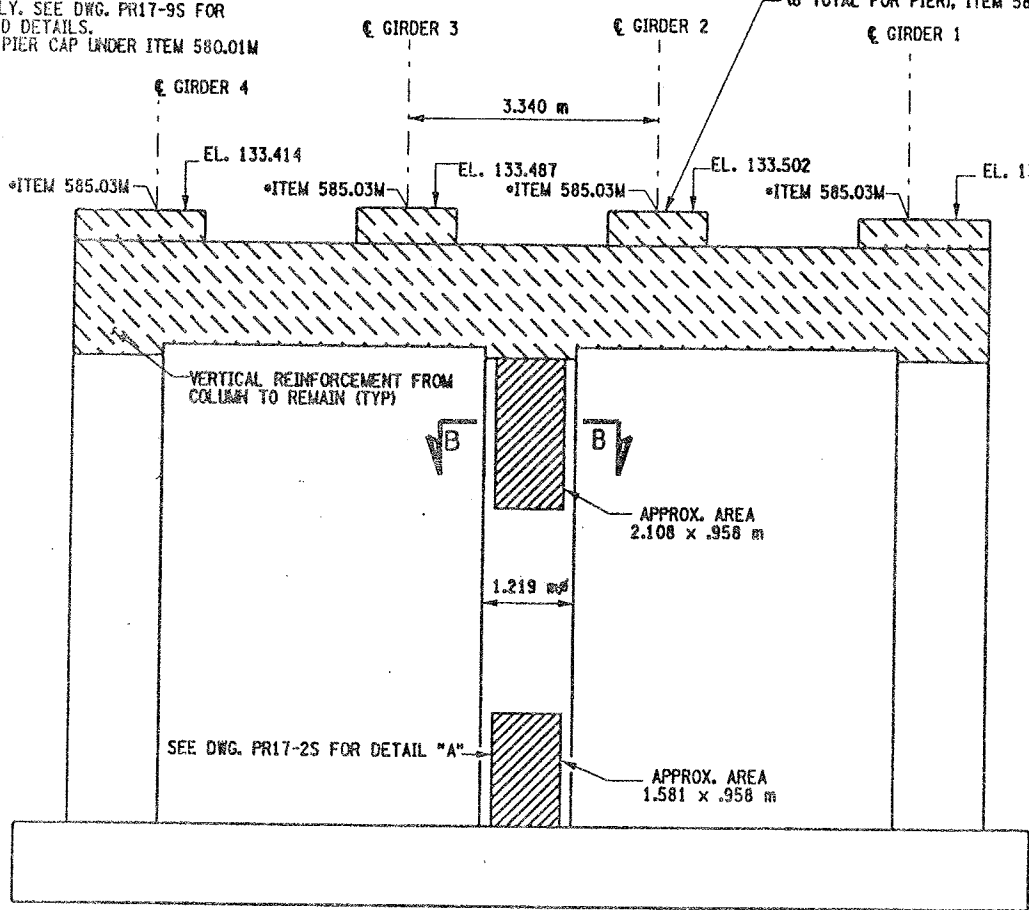
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CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	304	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	



PIER 5 - FRONT FACE (LOOKING NORTH)  
BIN 1093571 (REMOVAL)  
SCALE: 1 TO 50

ENTIRE PIER CAP TO BE REMOVED AND REPLACED ON SOUTHBOUND PIER ONLY. SEE DWG. PR17-95 FOR PROPOSED DETAILS. REMOVE PIER CAP UNDER ITEM 580.01M



PIER 5 - BACK FACE (LOOKING SOUTH)  
BIN 1093571 (REMOVAL)  
SCALE: 1 TO 50

NOTES:

1. ALL REINFORCEMENT TO REMAIN, (EXCEPT PEDESTAL REINFORCEMENT AND CAPBEAM REINFORCEMENT). THE VERTICAL REINFORCEMENT IN THE CAPBEAMS-ORIGINATING FROM THE COLUMNS SHALL REMAIN.
2. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
3. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
4. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
5. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
6. SEE DWG. PR17-2S FOR SECTION B-B AND DETAIL "A".
7. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M
8. FOR JACKING LOADS SEE DWG. PR17-1S
9. SEE BR-1 AND BR-2 FOR BEARING TABLE AND BEARING DETAIL.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

LEGEND:

- REPAIR: ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- REPLACEMENT: ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE - (CM) (COMPLETE REMOVAL)

LIST OF ITEMS USED:

- ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 585.02M - STRUCTURAL LIFTING OPERATION - TYPE C (EACH)
- ITEM 589.520001M - REMOVAL OF EXISTING STEEL (EACH)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE	DATE		
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 5			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P5A	REGION 3	DATE 10/02	DRAWING NO. PR17-85



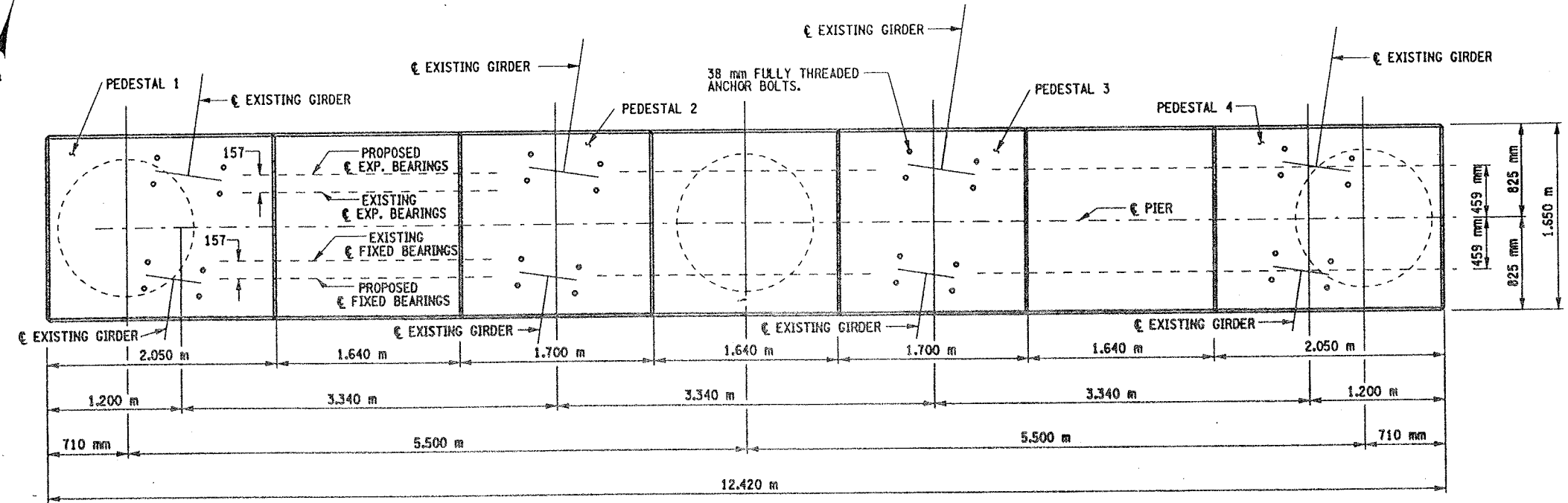
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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	305	432

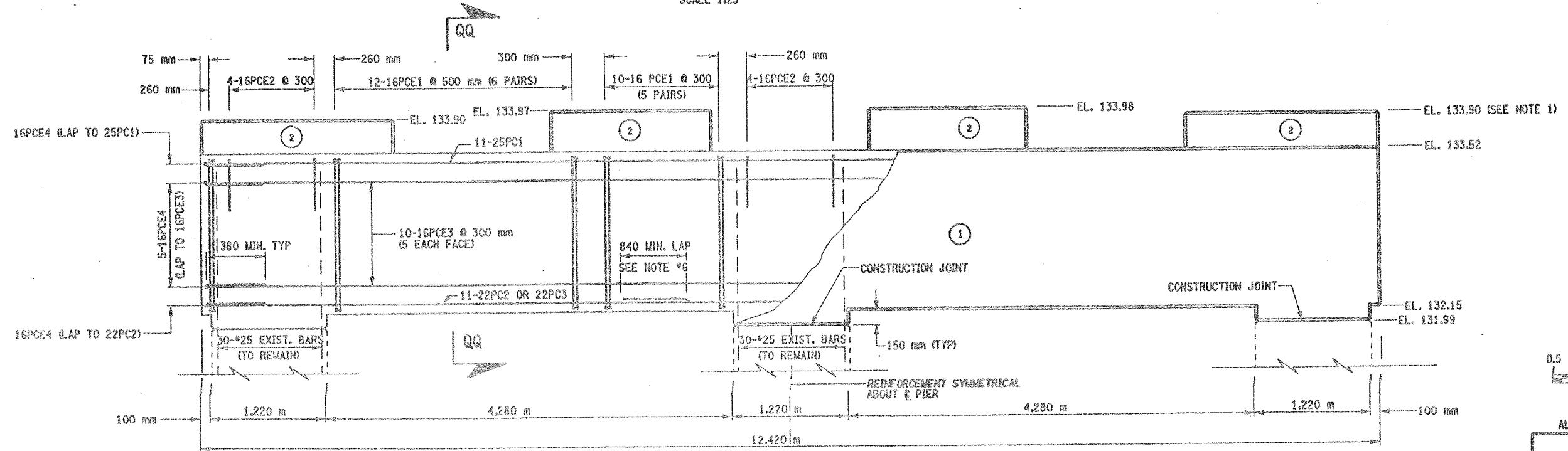
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
COUNTY OF ONONDAGA	
P.I.N. 305613	B.I.N. 1093571

NOTES:

1. THESE ELEVATIONS MAY HAVE TO BE ADJUSTED TO ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES IN THE BEARINGS WHICH MAY AFFECT THE PEDESTAL ELEVATIONS OR DIMENSIONS.
2. SEE DWG. NO. PR17-7S FOR ANCHOR BOLT LAYOUT, PEDESTAL REINFORCEMENT DETAIL AND SECTION Q-Q FOR CHAMFER DETAIL.
3. SEE DWG. NO. BL-6 FOR BARLIST AND BAR BENDING DIAGRAMS.
4. SEE BR-1 AND BR-2 FOR BEARING DETAILS.
5. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
6. REINFORCING BAR LAPS, IF REQUIRED, SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF THE BARS ARE LAPPED AT ANY ONE LOCATION.



PROPOSED  
PLAN  
SCALE 1:25

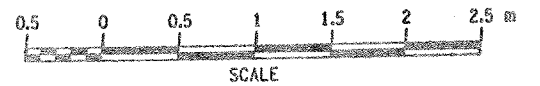


(NO.) INDICATES CONCRETE PLACEMENT NUMBER

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	5.12	555.09M
2	28.60	555.09M

LIST OF ITEMS USED:

- ITEM 555.09M - CONCRETE FOR STRUCTURES, CLASS HP (CM)
- ITEM 555.0201M - UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUC. (KG)
- ITEM 555.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUC. (KG)



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 5

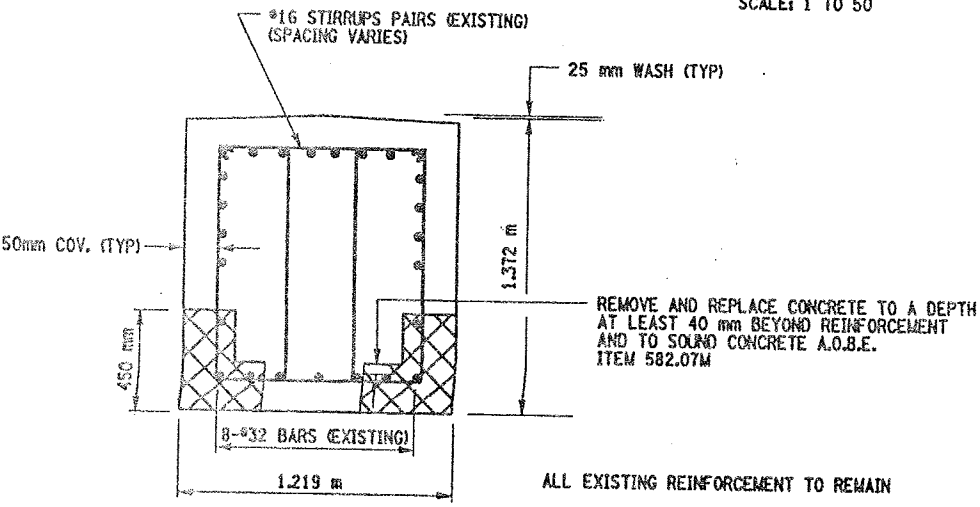
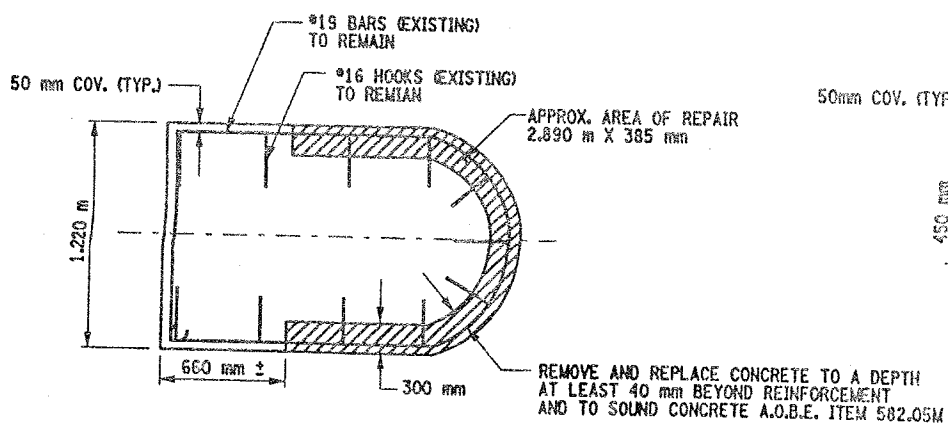
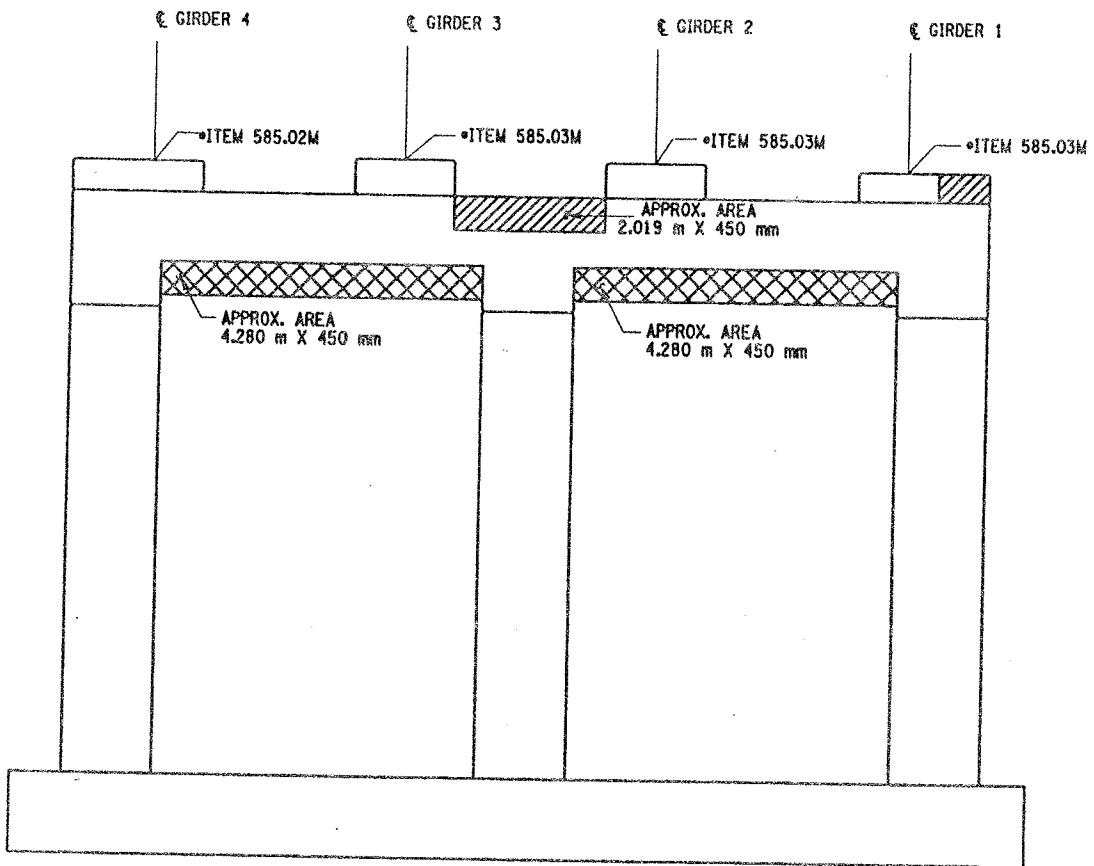
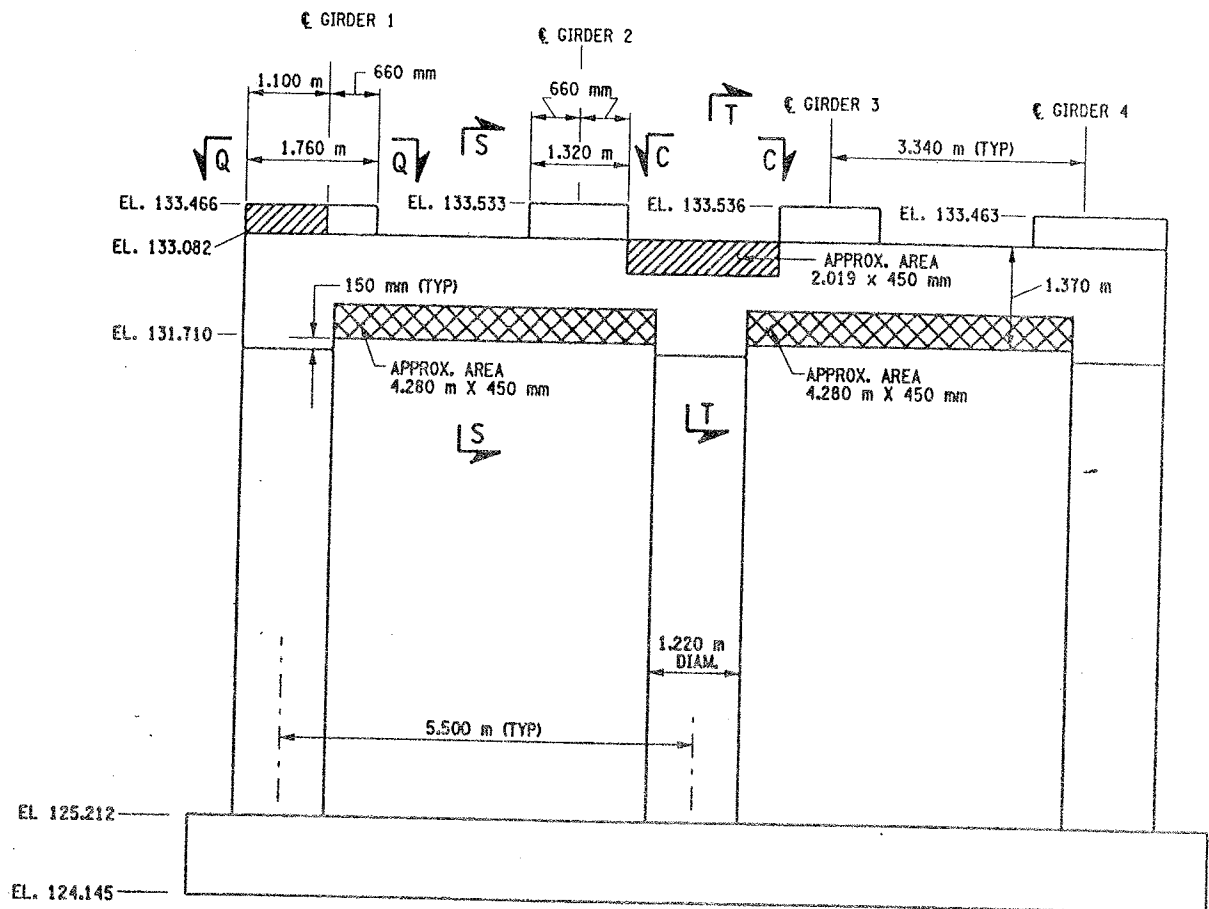


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P5A	3	10/02	PR17-9S



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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	306	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
  - SEE DWG. PR17-1S FOR SECTION C-C.
  - SEE DWG. PR17-5N FOR SECTION T-T.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 6	

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P6A	3	10/02	PR17-10S



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DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	307	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
9. FOR JACKING NOTES SEE DWG. PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

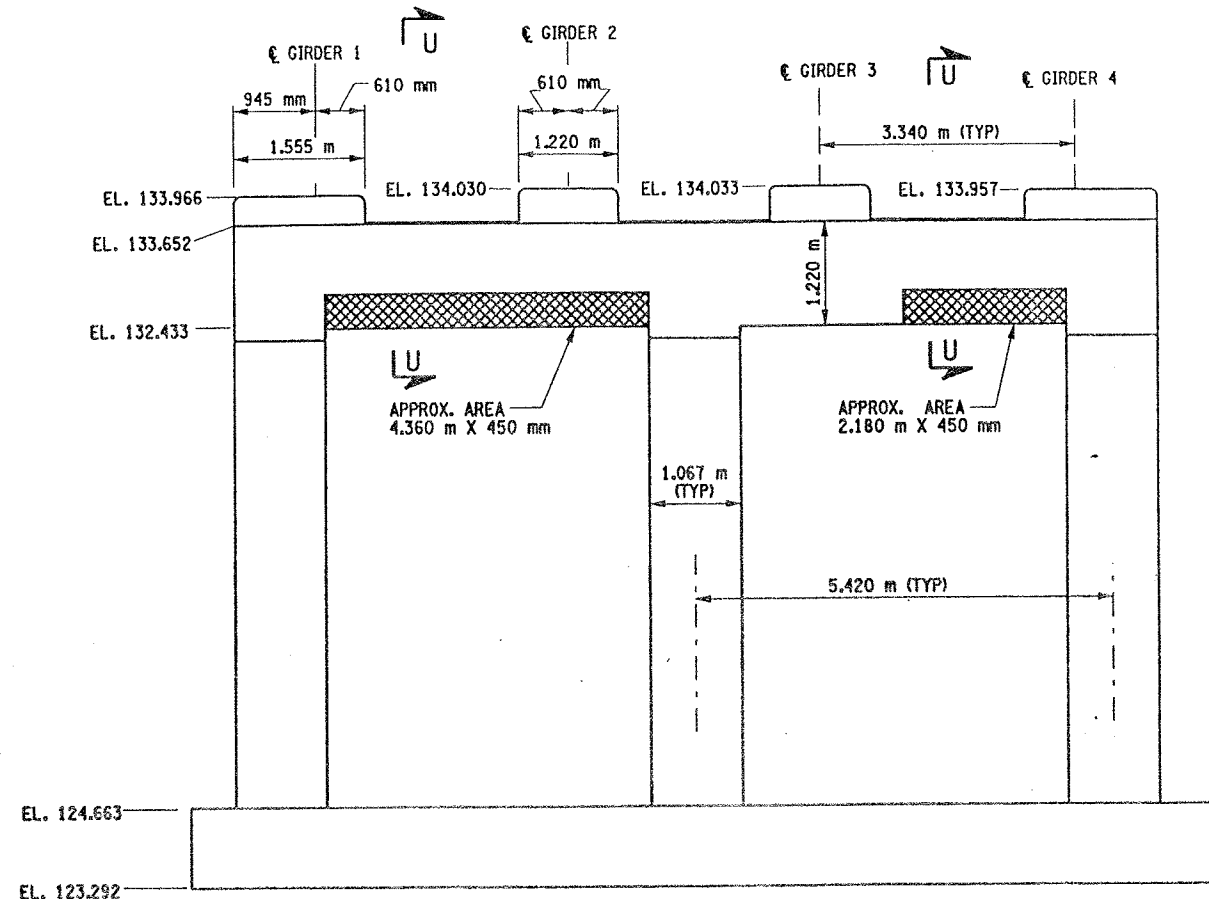
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INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 7

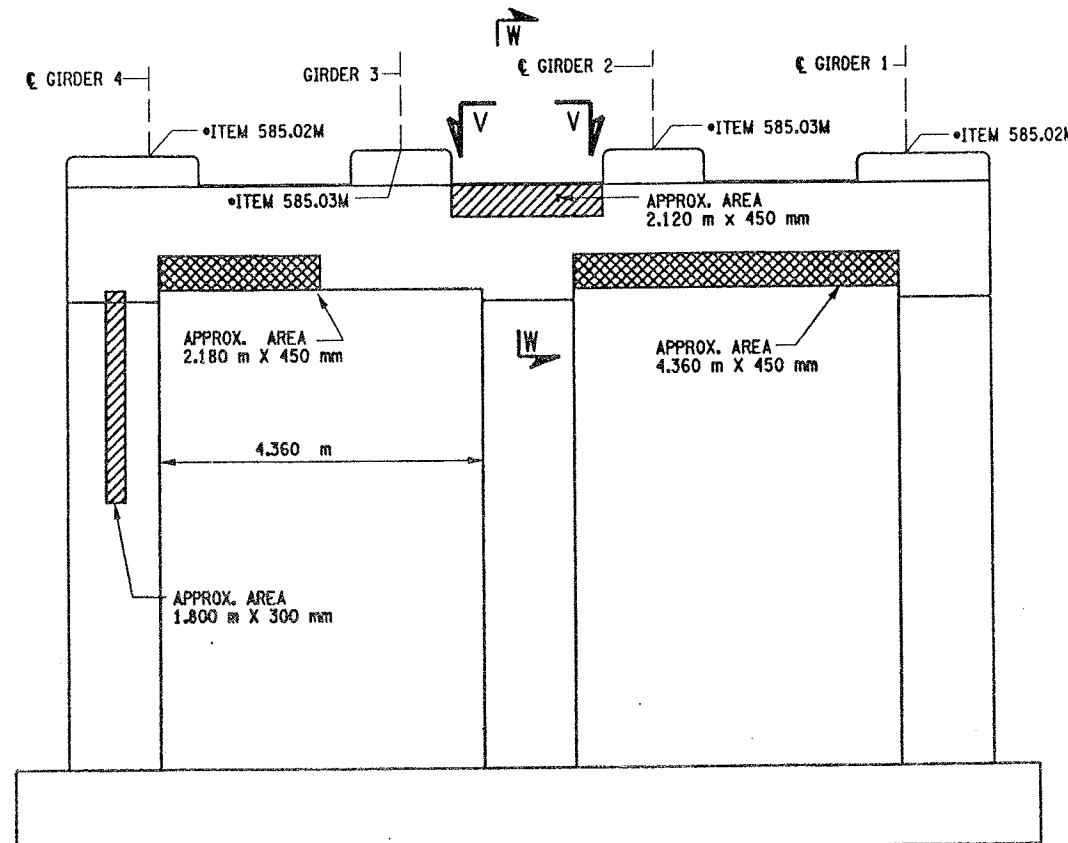


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

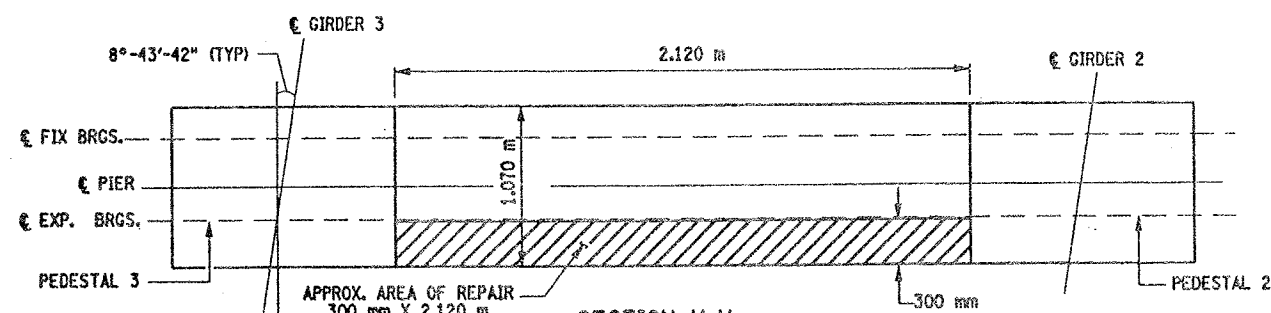
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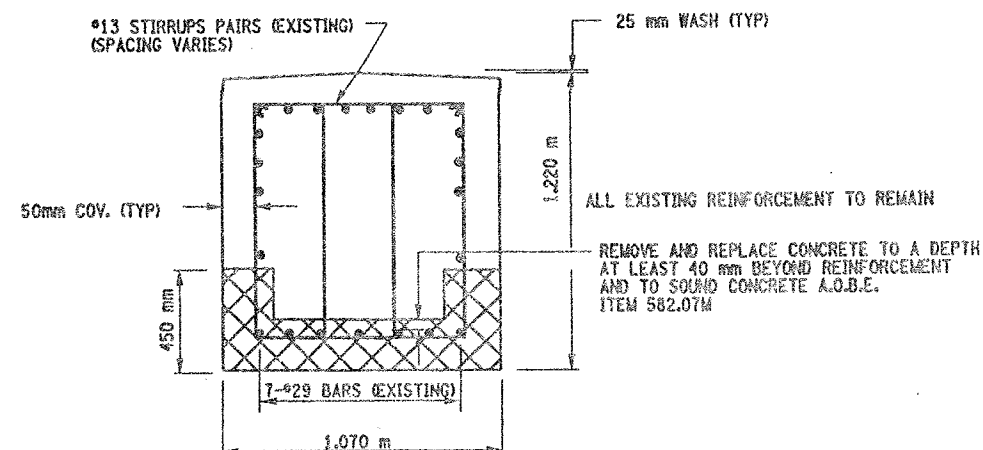
PIER 7 - FRONT FACE LOOKING NORTH  
BIN 1093571  
SCALE: 1 TO 50



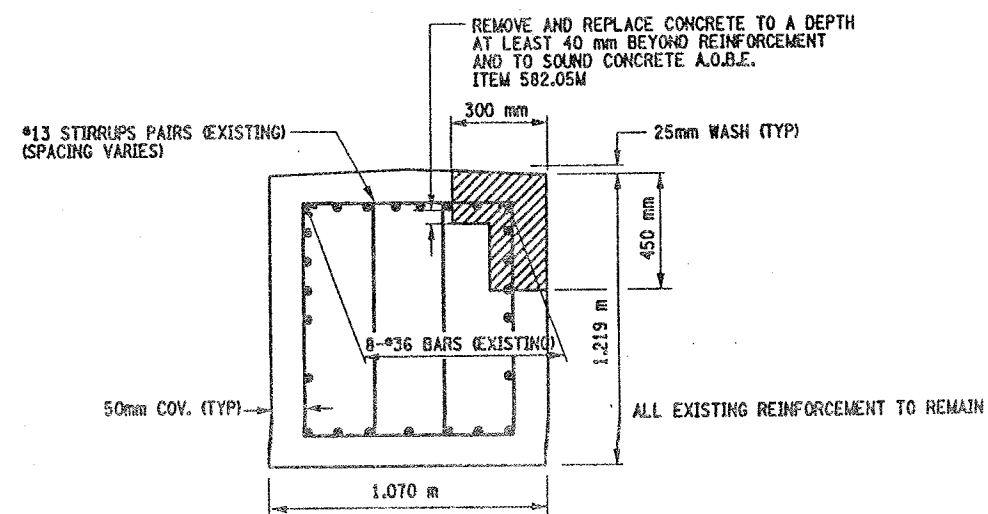
PIER 7 - BACK FACE LOOKING SOUTH  
BIN 1093571  
SCALE: 1 TO 50



SECTION V-V  
NOT TO SCALE



SECTION U-U  
NOT TO SCALE



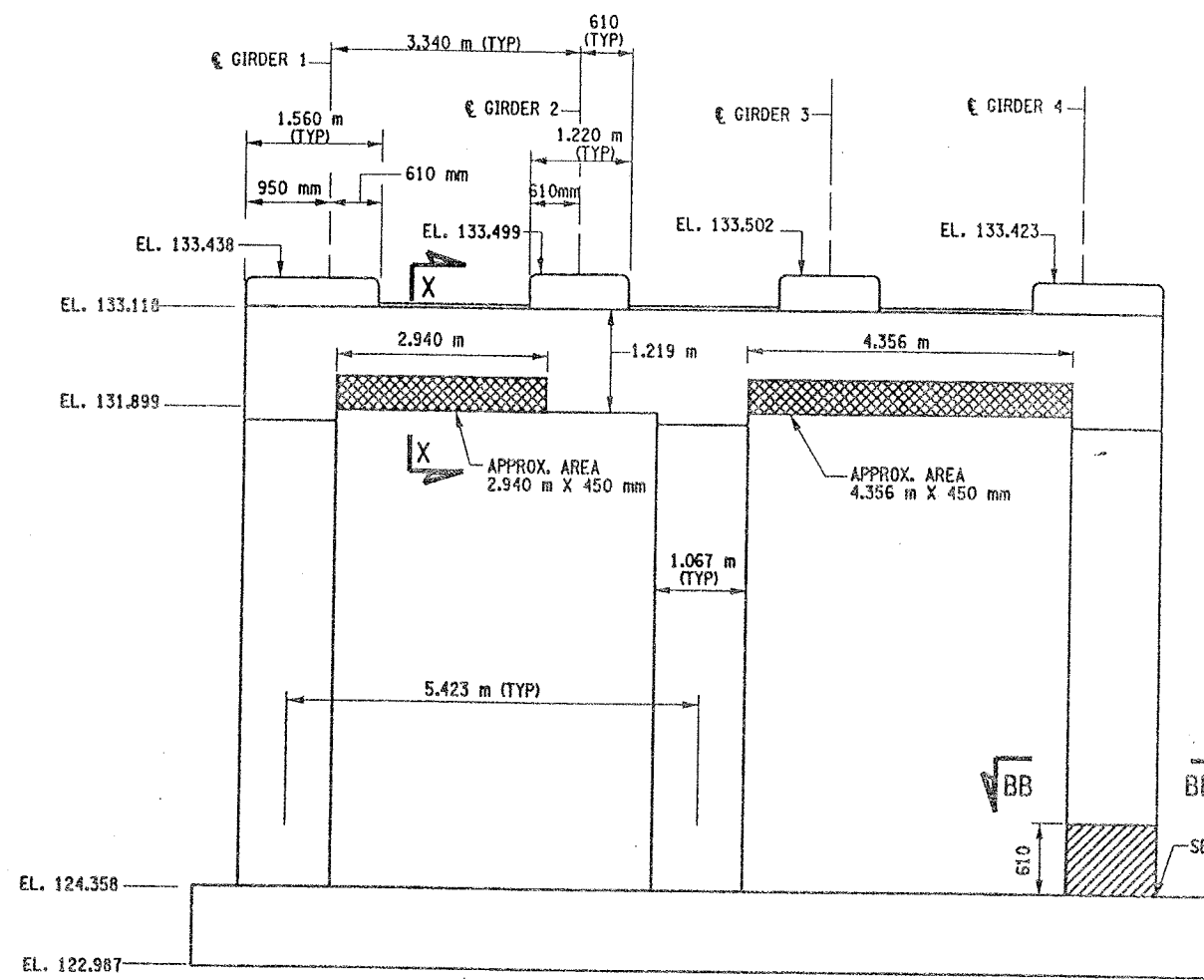
SECTION W-W  
NOT TO SCALE

LIST OF ITEMS USED:

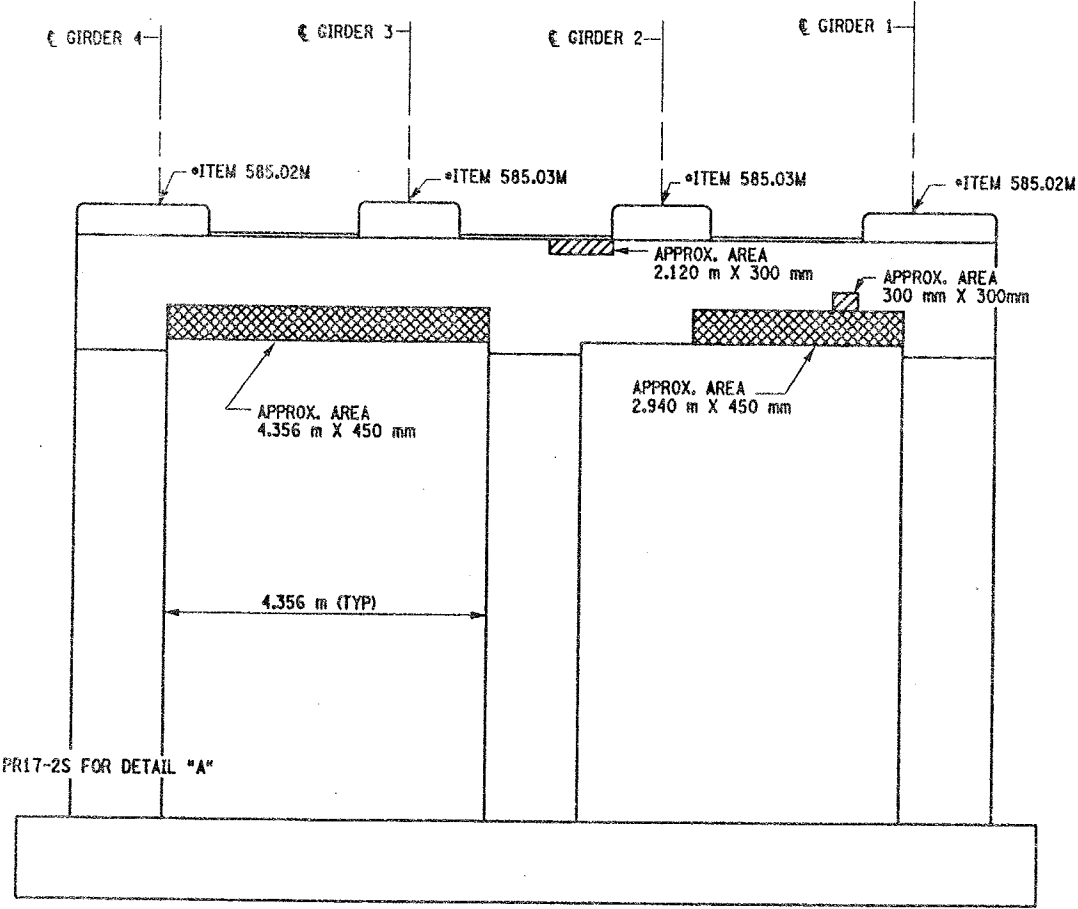
ITEM 15565.4302M - BRIDGE BEARING RESTORATION  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (CM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (CA)



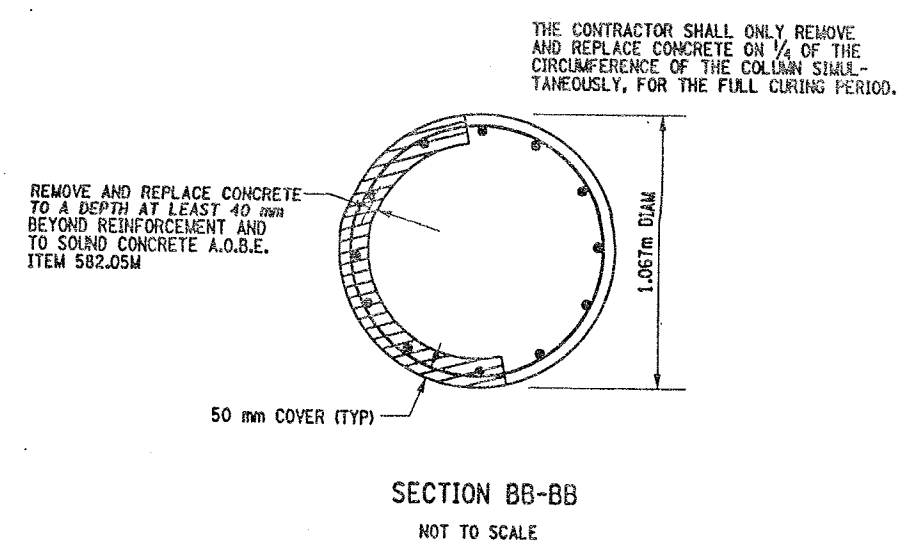
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DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



PIER 8 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 8 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50



SECTION BB-BB  
NOT TO SCALE

- LIST OF ITEMS USED:
- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	308	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093571

NOTES:

- ALL REINFORCEMENT TO REMAIN.
- RESTORE TO ORIGINAL DIMENSIONS.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
- ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
- REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
- SEE DWG. PR17-7N FOR SECTIONS X-X.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
- FOR JACKING NOTES SEE DWG. PR17-1S
- CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF THE CONTRACT.

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 SB OVER CSX RAILROAD PIER 8	

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P8A	3	10/02	PR17-12S



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	309	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

NOTES:



1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. SEE DWG. PR17-7N FOR SECTIONS AA-AA, Y-Y AND X-X.
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
10. FOR JACKING NOTES SEE DWG PR17-1S
11. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

-  ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
-  ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

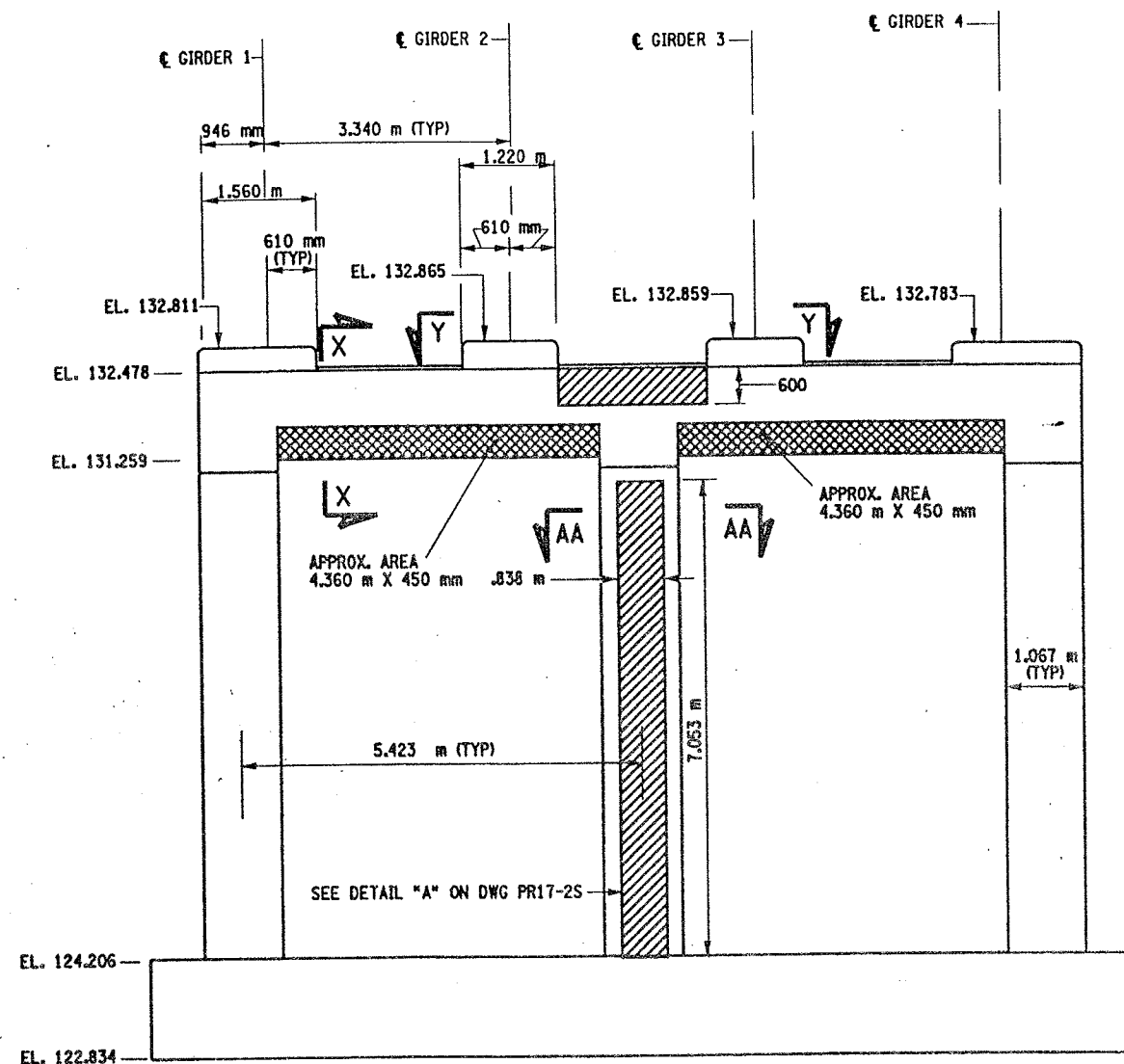
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INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 9

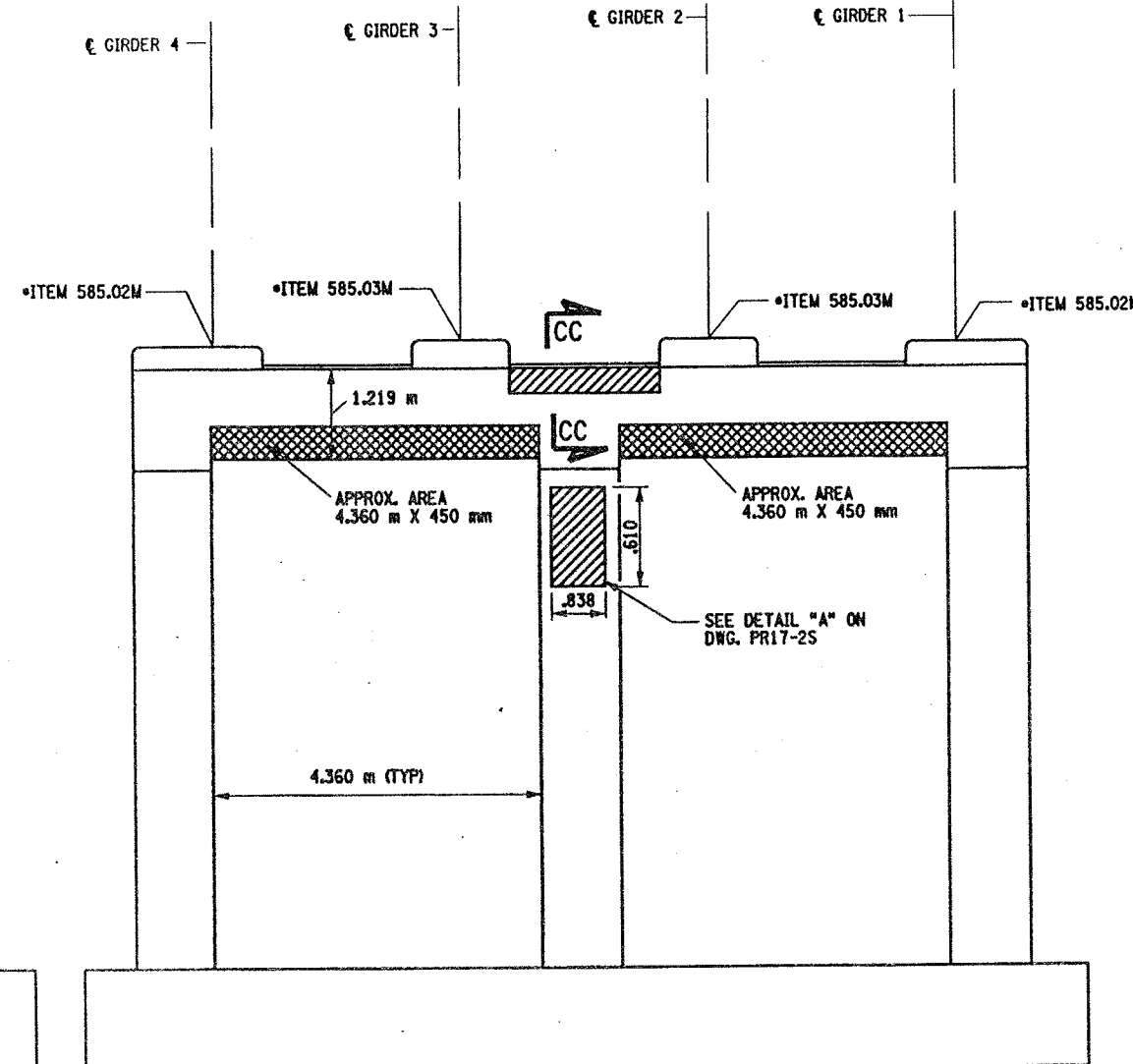


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

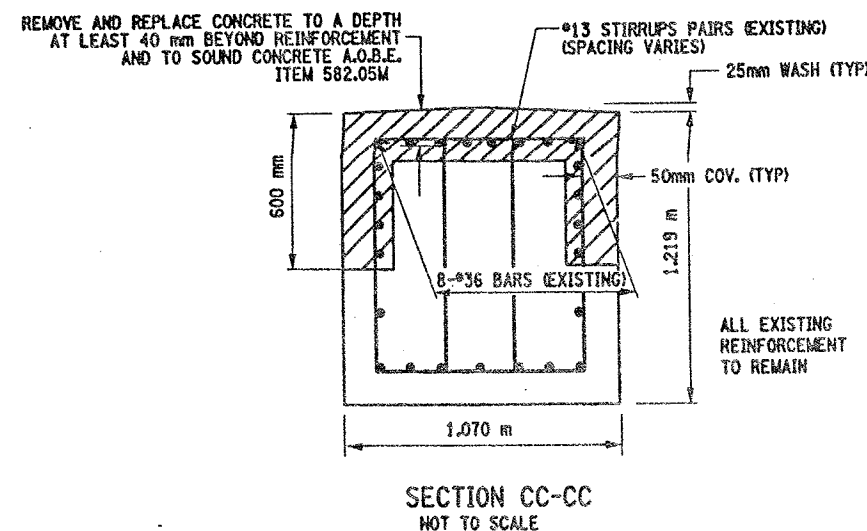
FILENAME	REGION	DATE	DRAWING NO.
305613AE.P9A	3	10/02	PR17-13S



PIER 9 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 9 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50

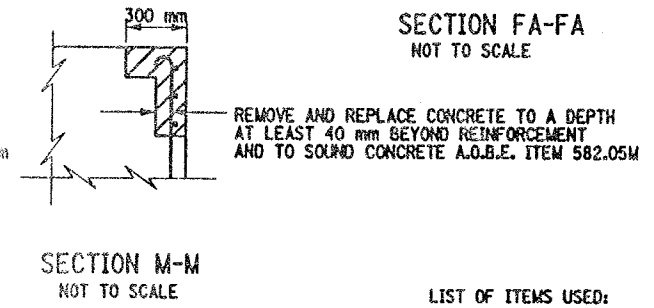
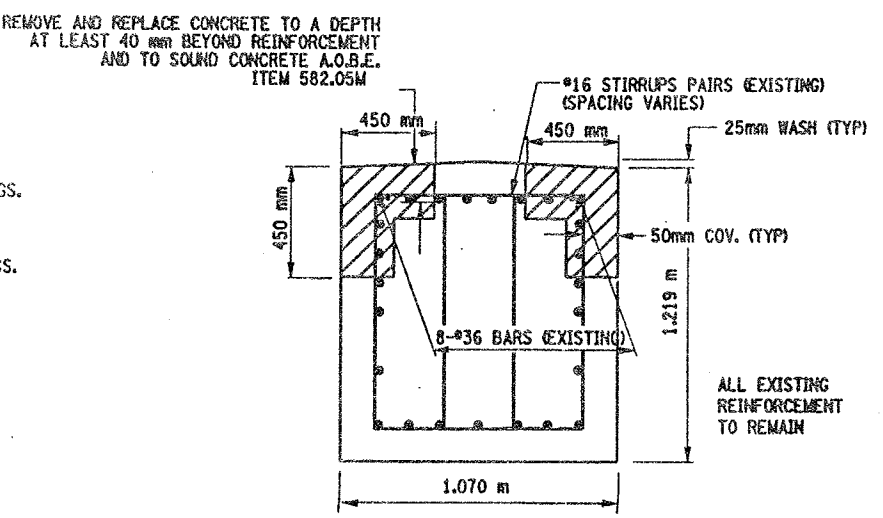
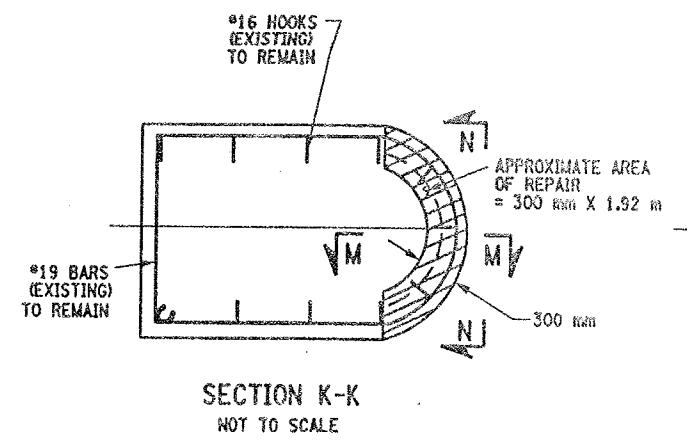
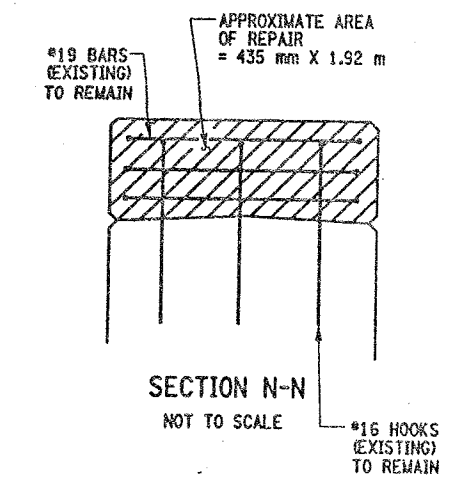
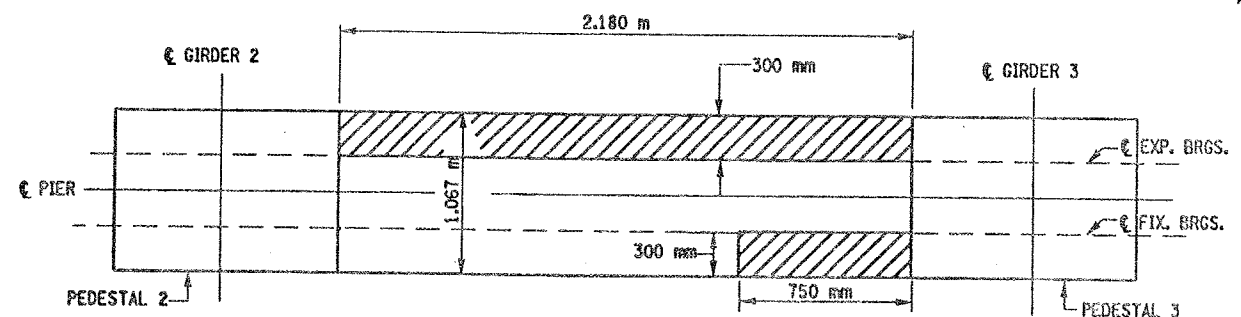
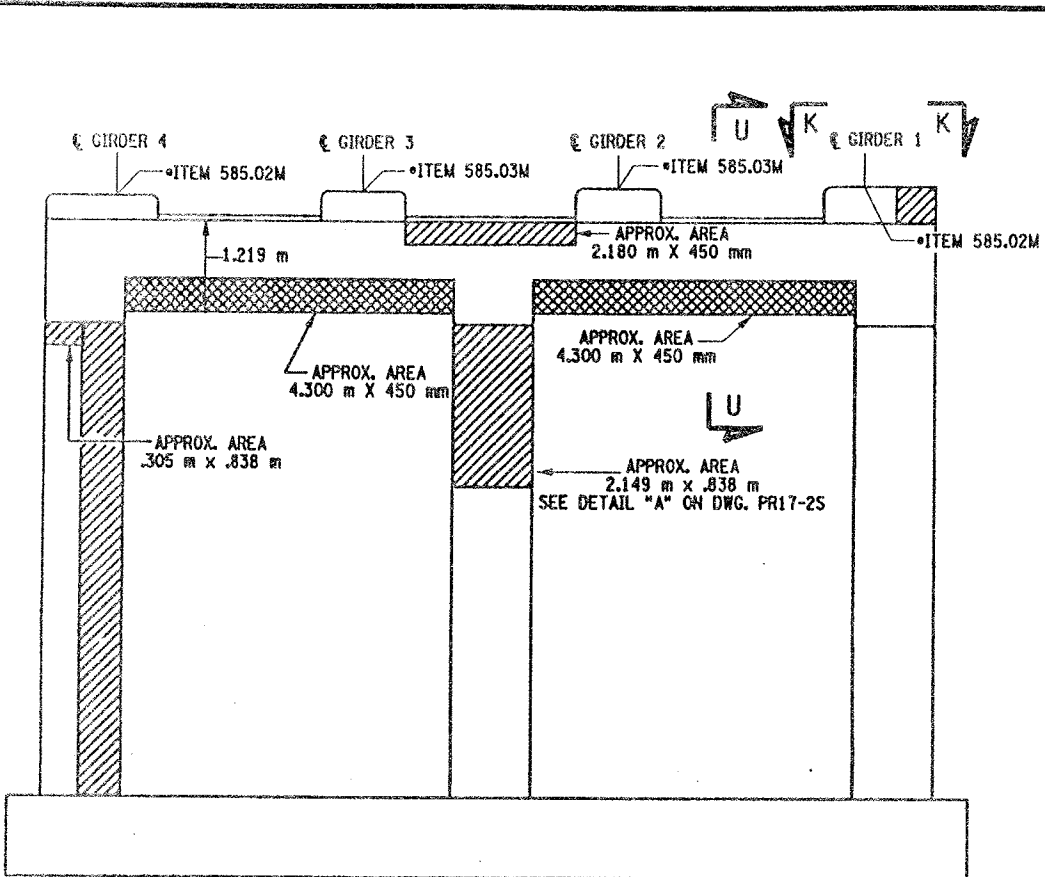
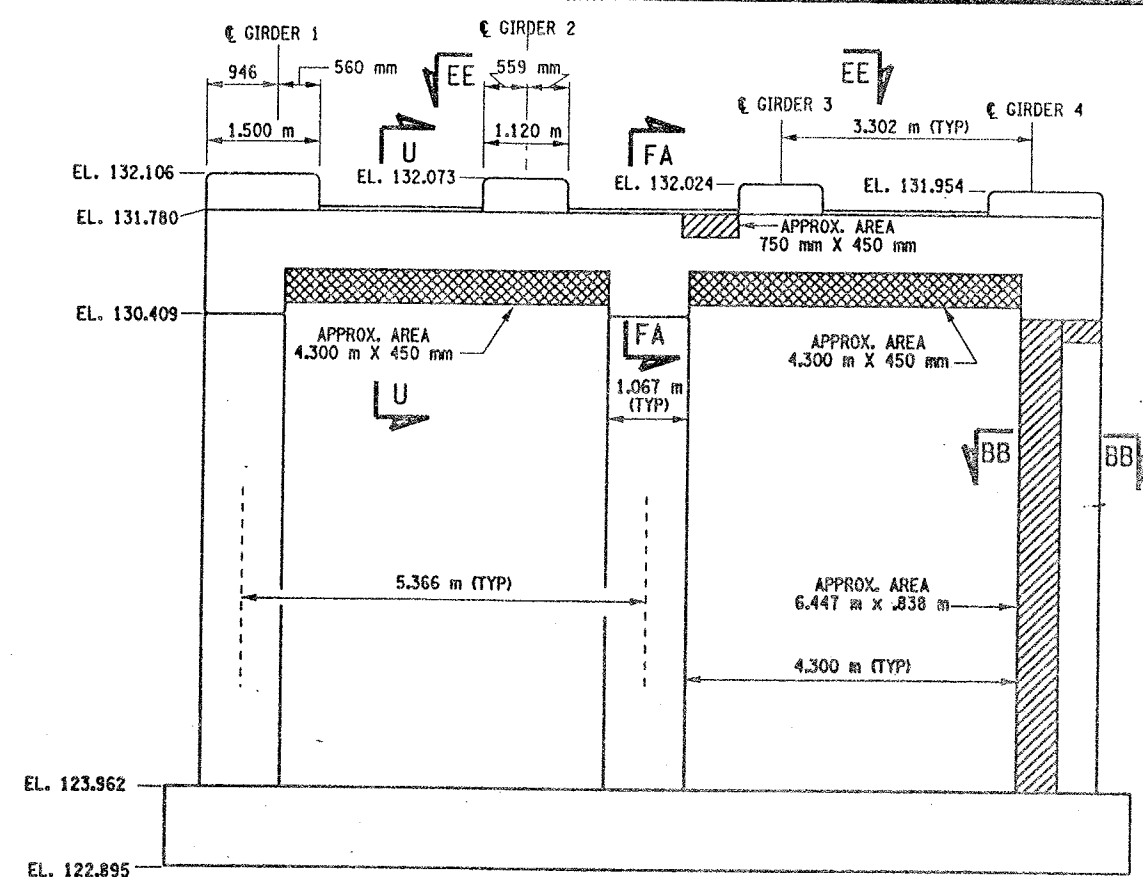


LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	310	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093571

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-12S FOR SECTION BB-BB.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  - FOR JACKING NOTES SEE DWG. PR17-1S.
  - SEE DWG. PR-17-11S FOR SECTION U-U.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 10			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME	REGION	DATE	DRAWING NO.
305613AE.P10	3	10/02	PR17-145



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DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	311	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
ONONDAGA COUNTY	
P.I.N. 305613	B.I.N. 1093571

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-12S FOR SECTION BB-BB.
  - SEE DWG. PR17-10N FOR SECTION DD-DD.
  - SEE DWG. PR17-11N FOR SECTION FF-FF.
  - SEE DWG. PR17-11S FOR SECTION W-W.
  - PEDESTAL 4 SHALL BE REPLACED TO EXISTING DIMENSIONS, ITEM 555.0105 M.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG. PR17-1S

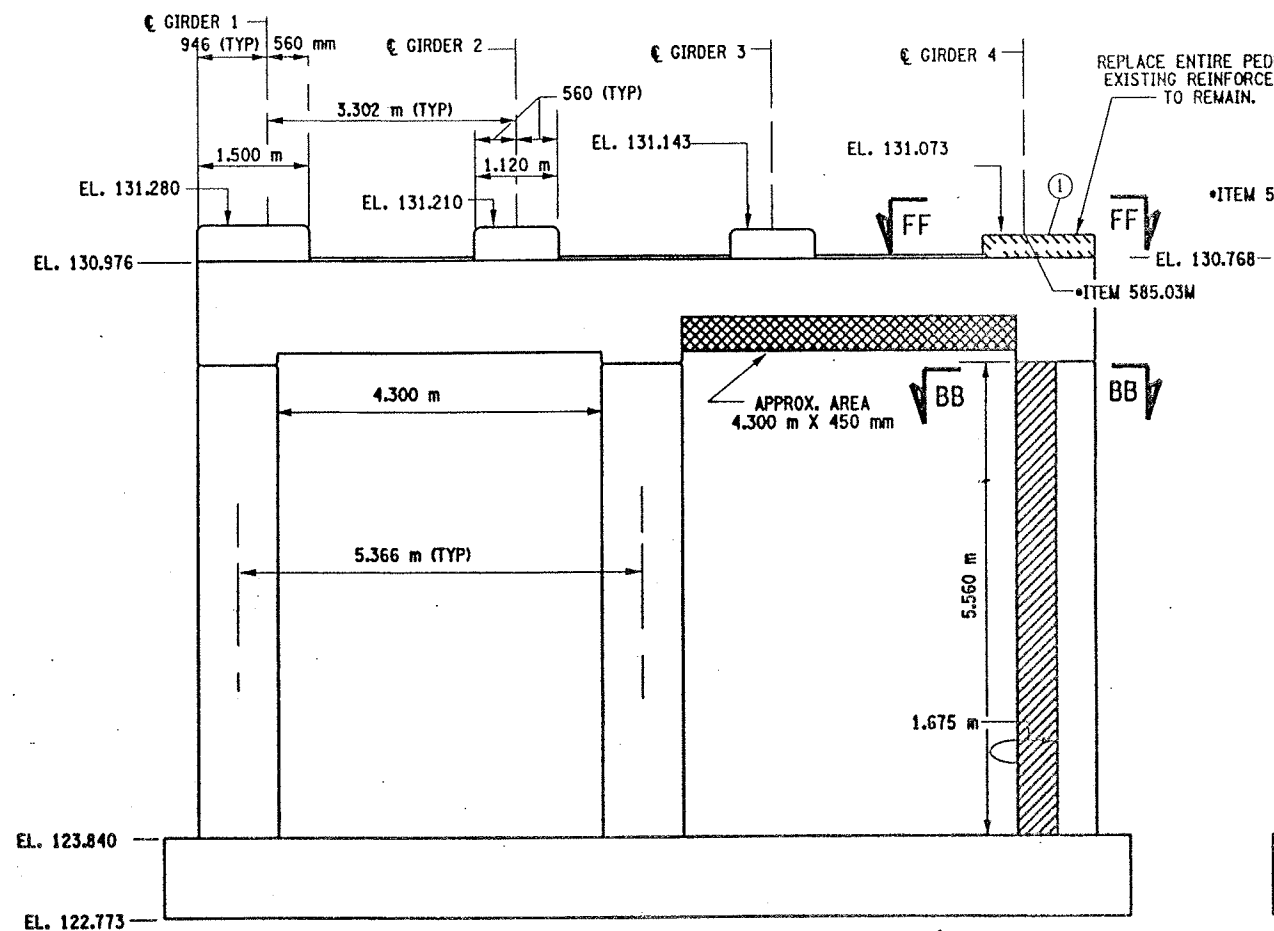
• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

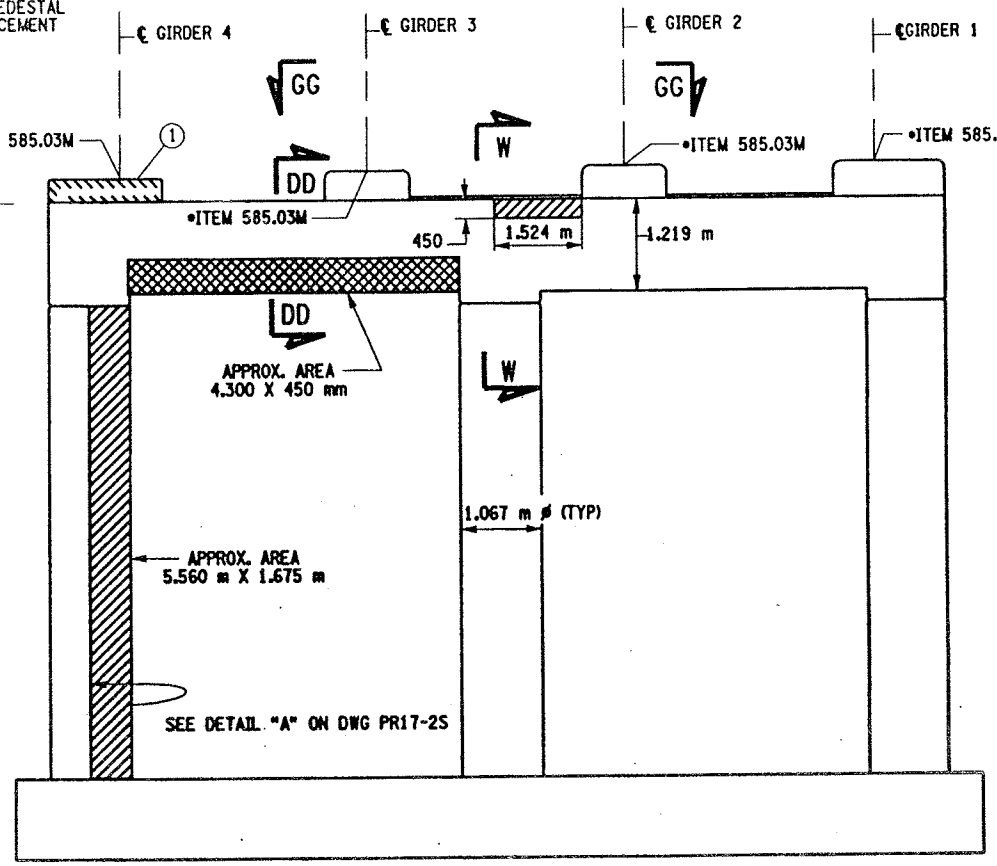
- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)
  - ITEM 580.01 M - REMOVAL OF STRUCTURAL CONCRETE. (CM) AND ITEM 555.0105 M - CONCRETE FOR STRUCTURES CLASS A. (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

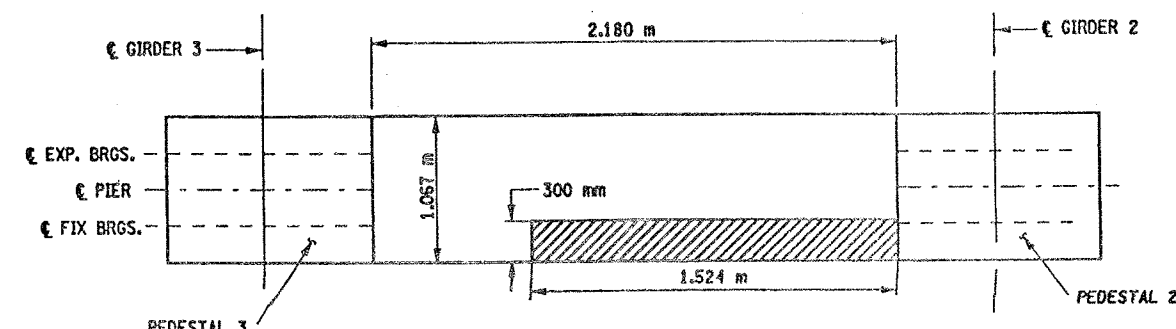
AS BUILT REVISIONS	
SIGNATURE	DATE
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 11	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P11	REGION 3
DATE 10/02	DRAWING NO. PR17-15S



PIER 11 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 11 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50



SECTION G-G  
NOT TO SCALE

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	0.49	555.0105M

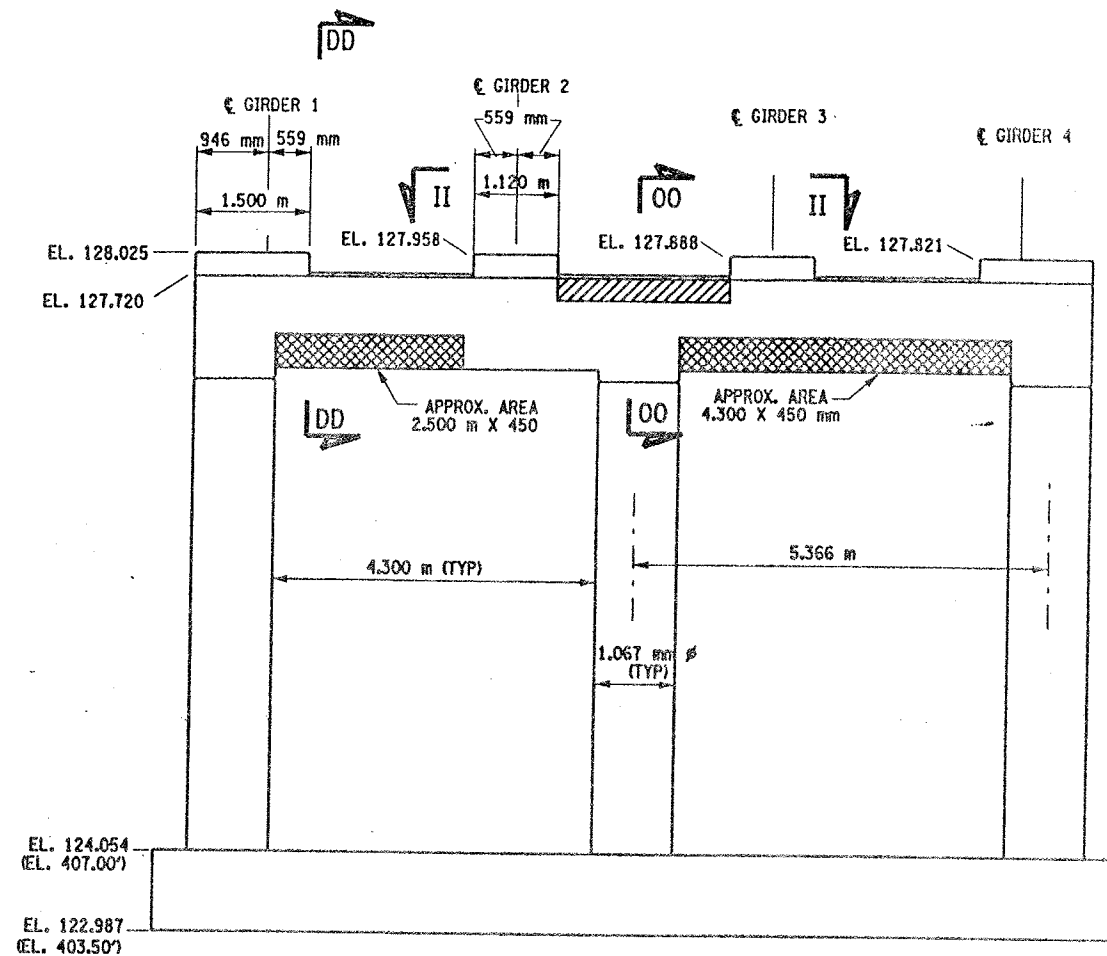
① INDICATES CONCRETE PLACEMENT NUMBER

- LIST OF ITEMS USED
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 555.0105M - CONCRETE FOR STRUCTURES, CLASS A (CM)
  - ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L. (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

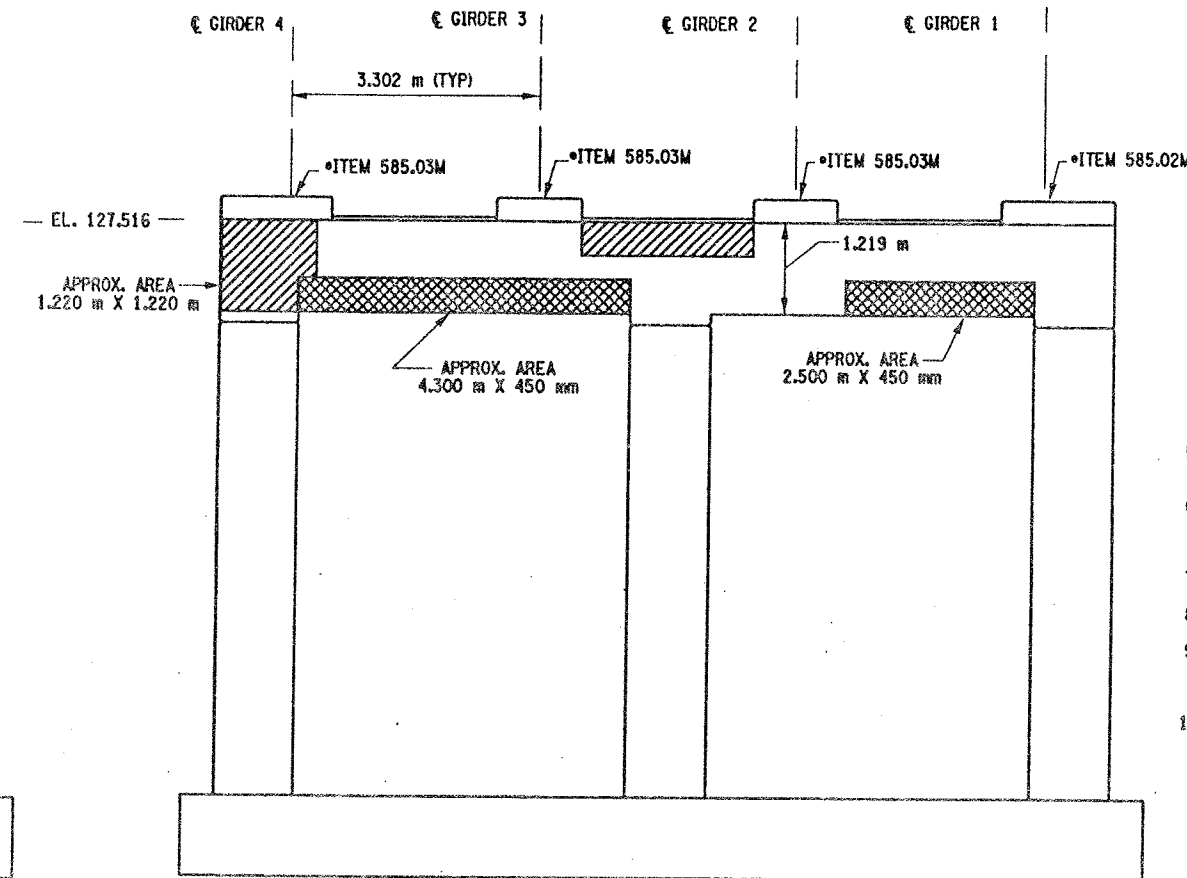


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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

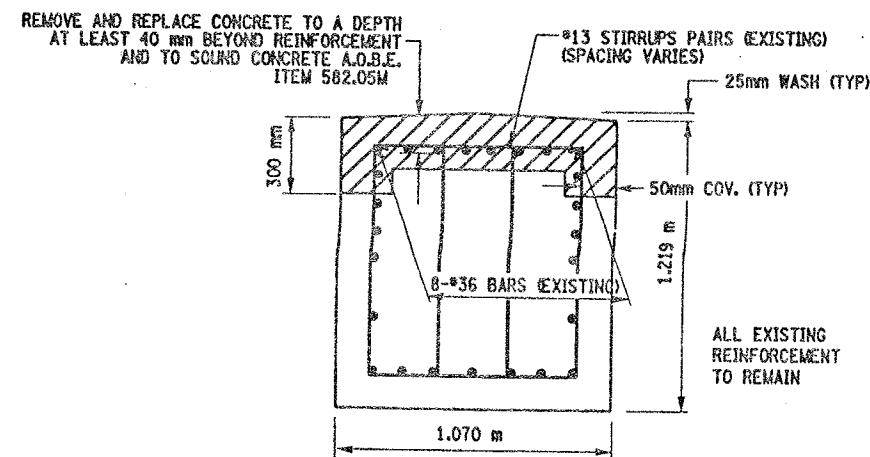
FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	314	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.I.N. 1093571	



PIER 14 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 14 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50



SECTION 00-00  
NOT TO SCALE

LIST OF ITEMS USED:

ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. SEE DWG. PR17-10H FOR SECTION DD-DD.
8. SEE DWG. PR17-16S FOR SECTION II-II.
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
10. FOR JACKING NOTES SEE DWG PR17-1S.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE	DATE		
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 14			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P14	REGION 3	DATE 10/02	DRAWING NO. PR17-18S



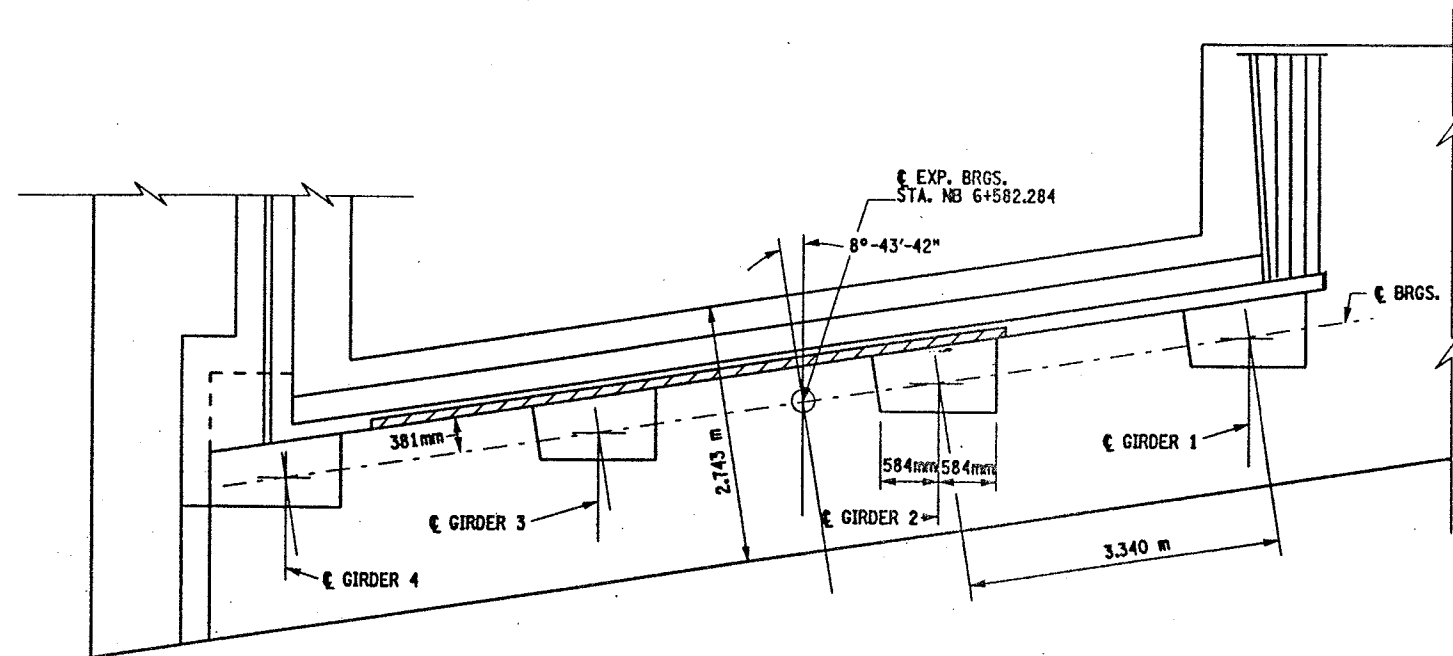
DESIGN SUPERVISOR  
JOB MANAGER  
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CHECKED BY  
ESTIMATED BY  
DRAFTED BY  
CHECKED BY

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	315	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:

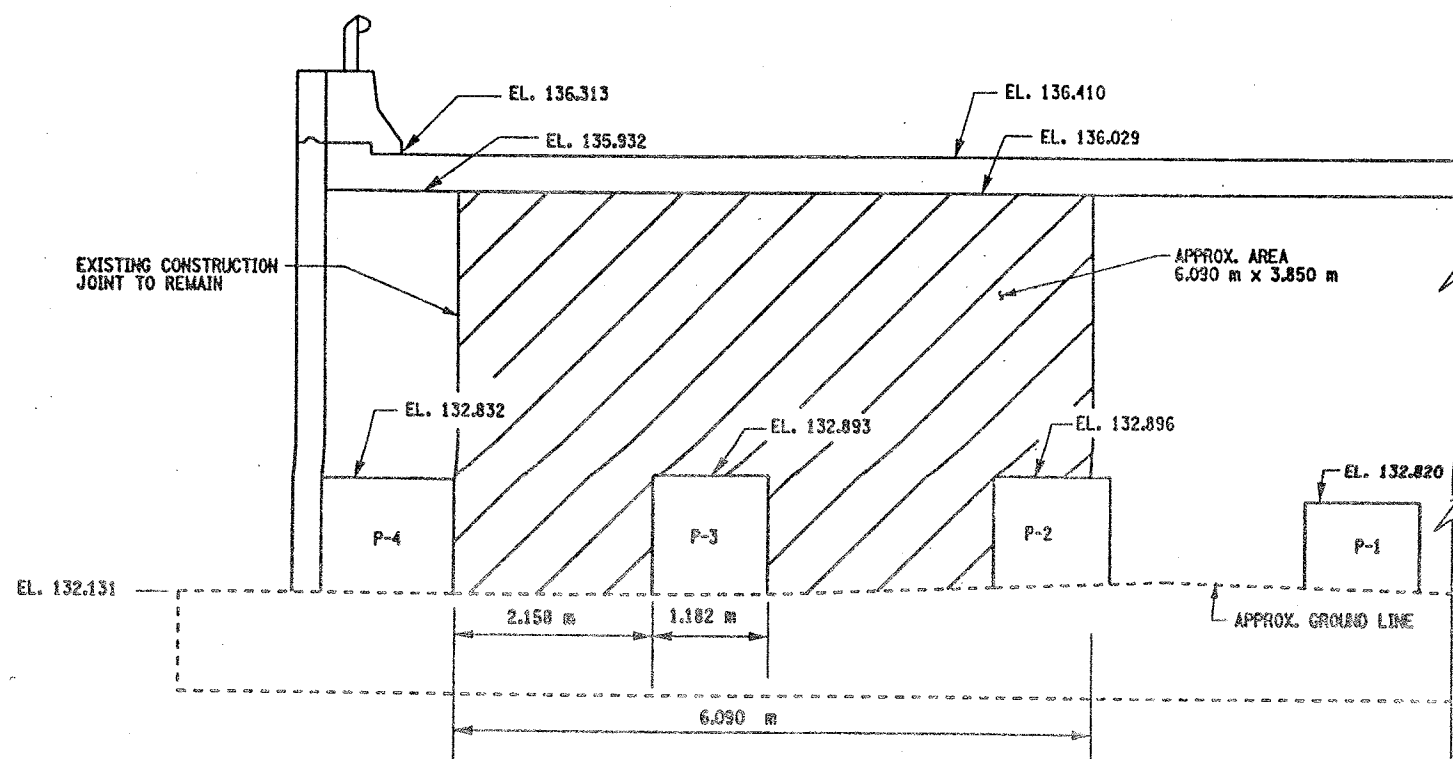
1. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND EIC.
2. REMOVE CONCRETE TO LIMITS SHOWN AS WELL AS TO SOUND CONCRETE, A.O.B.E.
3. WHEN REMOVING EXISTING CONCRETE, SAWCUT 5 mm MIN. TO PRODUCE NEAT REMOVAL LINES. ANY COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 582.05M.
4. INCLUDED IN THE BID PRICE FOR ITEM 582.05M.
5. ALL EXISTING REINFORCEMENT TO REMAIN.
6. ELEVATIONS ARE GIVEN FOR QUANTITY ESTIMATES ONLY.
7. REFER TO CONTRACT D250094 FOR ORIGINAL CONSTRUCTION DETAILS.

AREAS OF PROPOSED WORK: ITEM 582.05M  
REMOVAL OF STRUCTURAL CONCRETE-  
REPLACEMENT WITH CLASS A CONCRETE (CM)



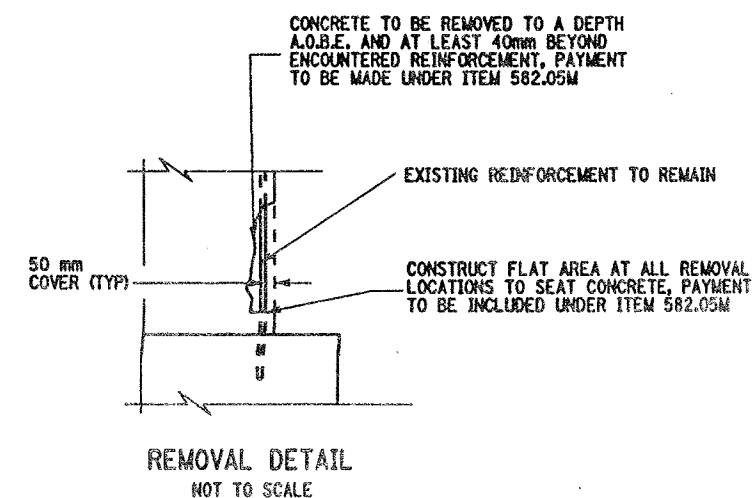
SOUTH ABUTMENT  
PLAN

SCALE 1:40



SOUTH ABUTMENT  
ELEVATION

SCALE 1:40



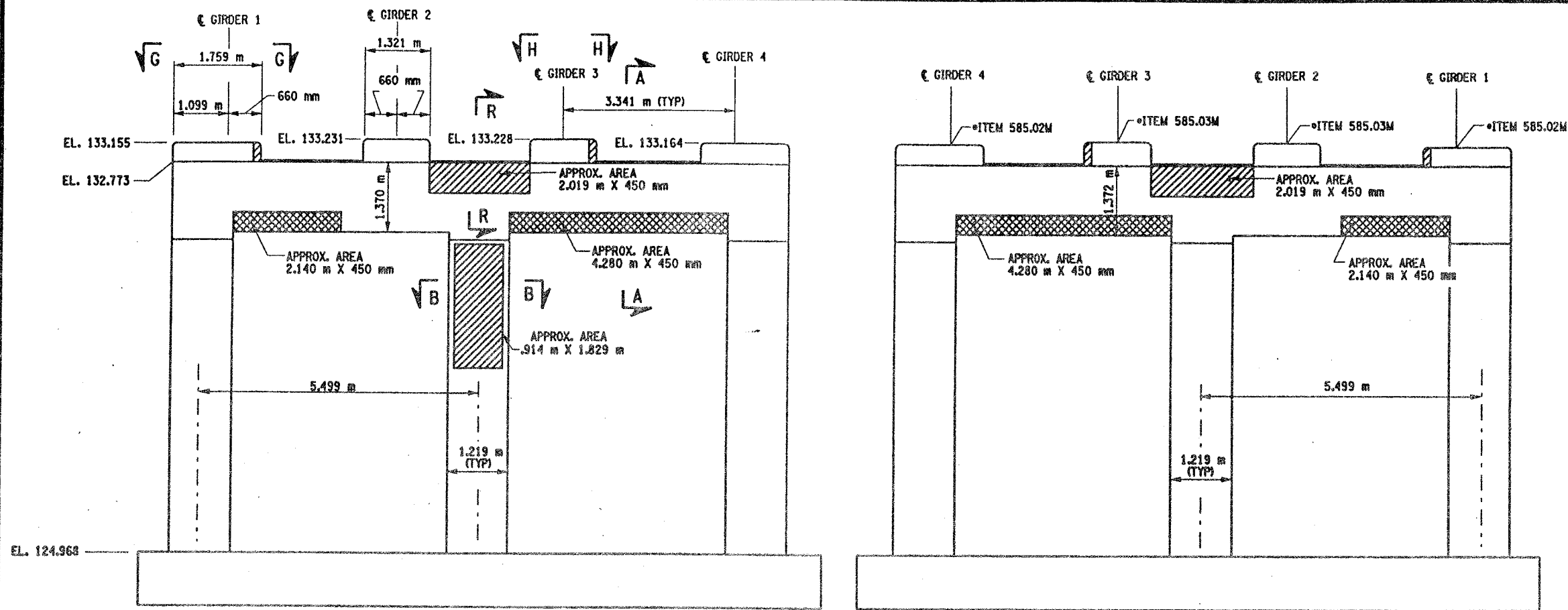
LIST OF ITEMS USED:  
ITEM 582.05M - REMOVE STRUCTURAL CONCRETE  
WITH CLASS A CONCRETE (CM)

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481 NB OVER CSX RAILROAD SOUTH ABUTMENT			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.A1B	REGION 3	DATE 10/02	DRAWING NO. AB17-1

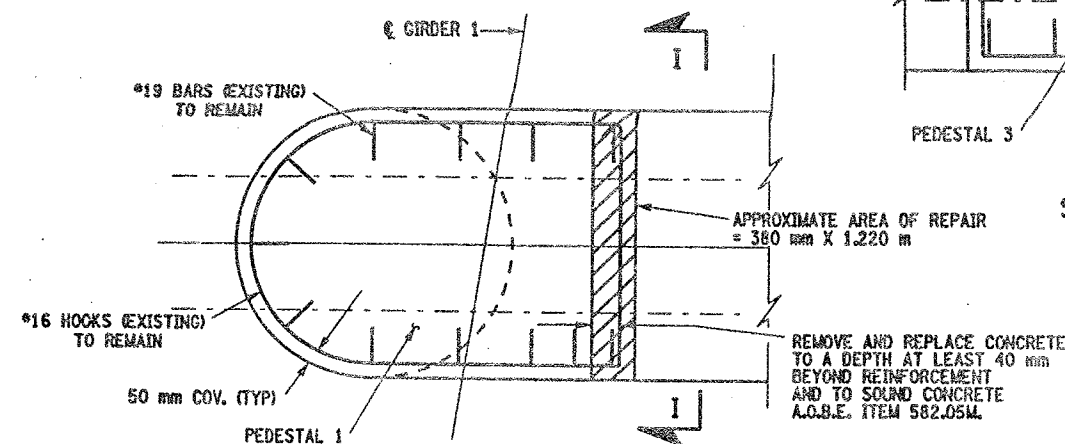
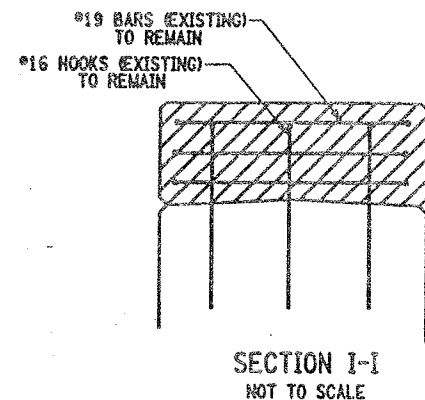


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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

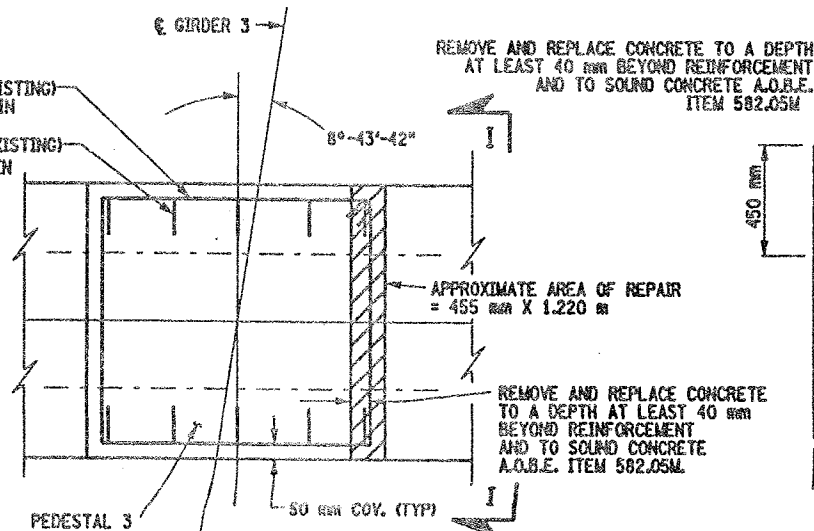


PIER 1 - FRONT FACE (LOOKING NORTH)

BIN 1093572  
SCALE: 1 TO 50



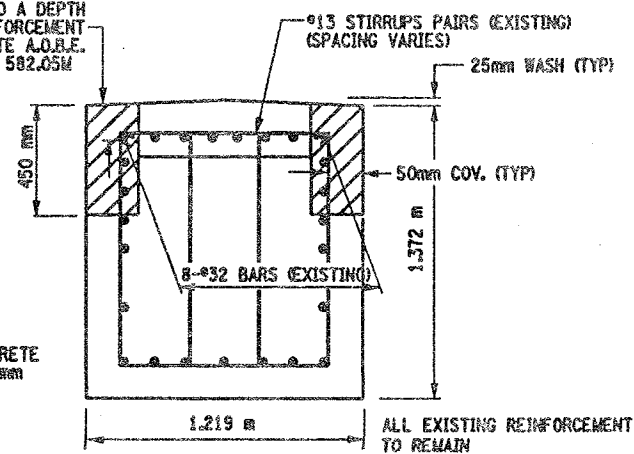
SECTION G-G  
NOT TO SCALE



SECTION H-H  
NOT TO SCALE

PIER 1 - BACK FACE (LOOKING SOUTH)

BIN 1093572  
SCALE: 1 TO 50



SECTION R-R  
NOT TO SCALE

LIST OF ITEMS USED:

ITEM 15565.4302 - BRIDGE BEARING RESTORATION  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	316	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.J.L. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES.
8. FOR SECTION A-A AND B-B SEE DWG. PR17-25.
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
10. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
11. FOR JACKING NOTES SEE DWG. PR17-15.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 1			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P1A	REGION 3	DATE 10/02	DRAWING NO. PR17-1N



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	317	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
8. SEE DWG. PR17-2S FOR SECTION A-A, D-D AND DETAIL "A".
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
10. FOR JACKING NOTES SEE DWG. PR17-1S
11. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

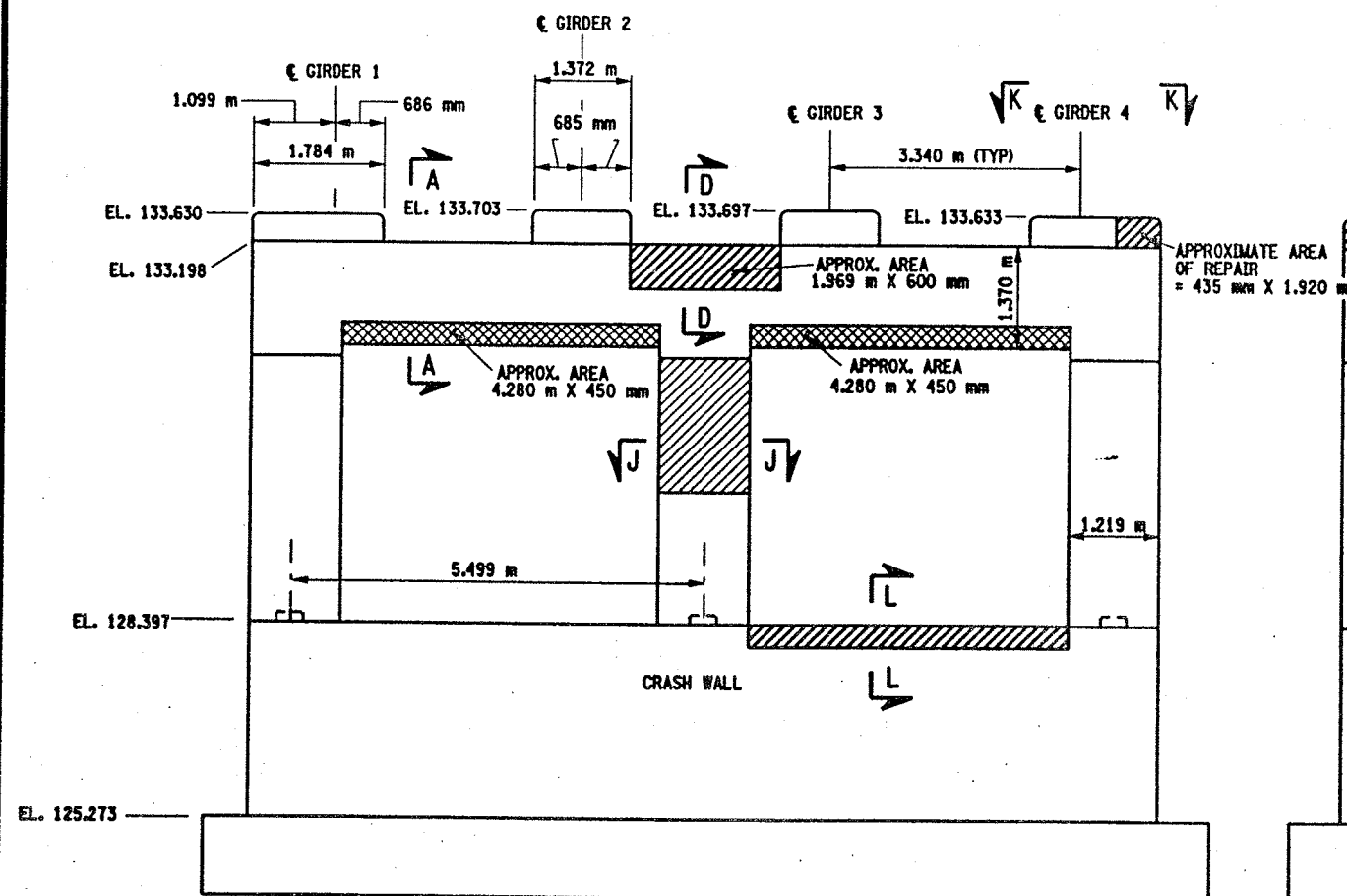
SIGNATURE DATE

INTERSTATE 481 NB  
OVER  
CSX RAILROAD YARD  
PIER 2

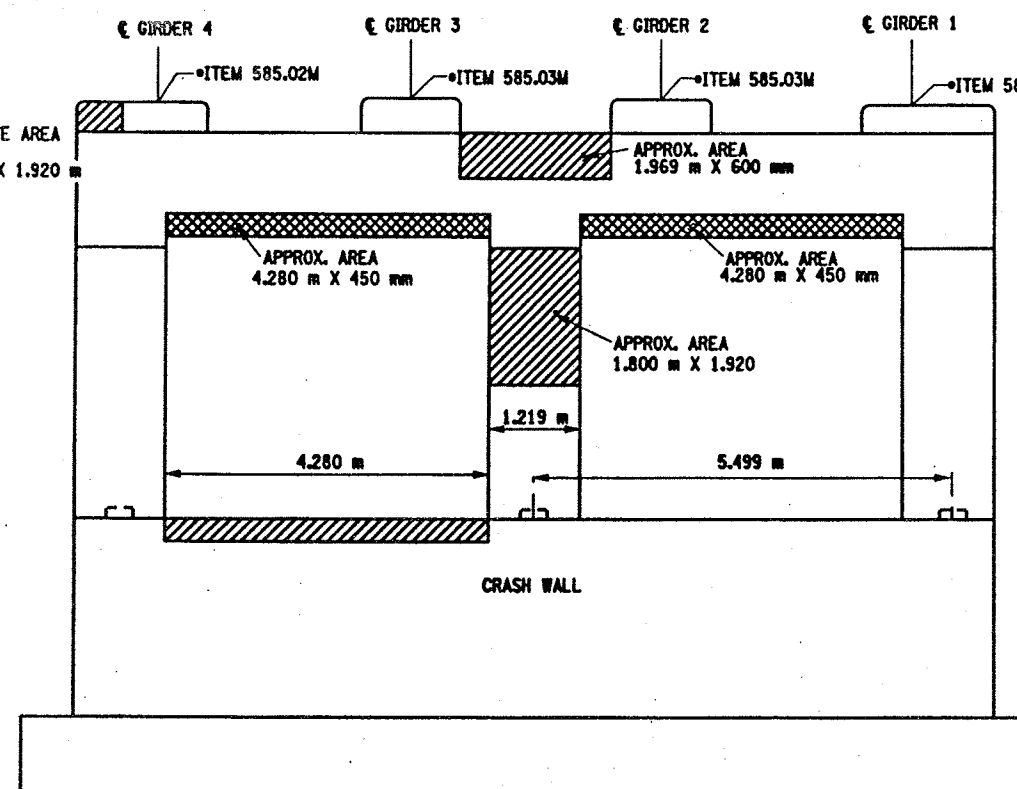


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

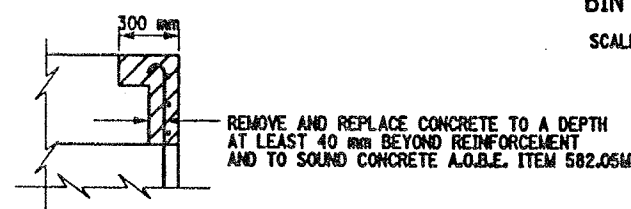
FILENAME REGION DATE DRAWING NO.  
305613AE.P2A 3 10/02 PR17-2N



PIER 2 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

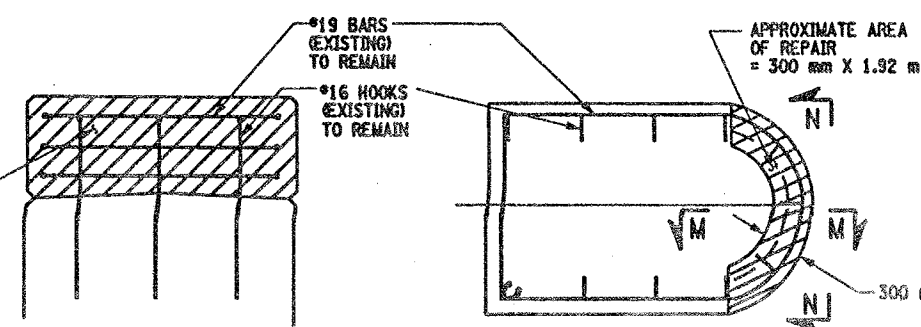


PIER 2 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50



SECTION M-M  
NOT TO SCALE

APPROXIMATE AREA OF REPAIR = 435 mm X 1.92 m

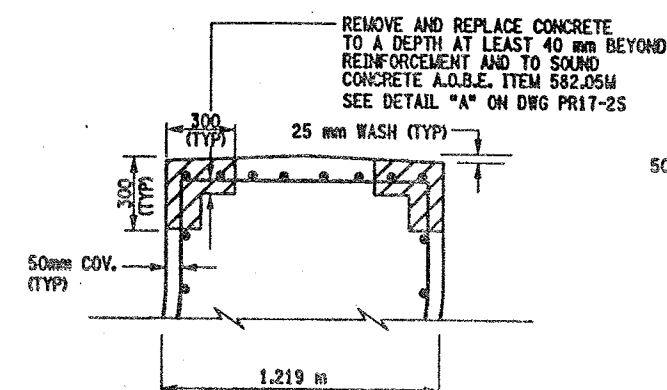


SECTION N-N  
NOT TO SCALE

SECTION K-K  
NOT TO SCALE

LIST OF ITEMS USED:

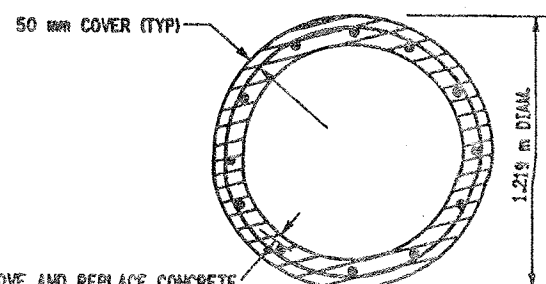
ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (CM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



SECTION L-L  
NOT TO SCALE

THE CONTRACTOR SHALL ONLY REMOVE AND REPLACE CONCRETE ON 1/4 OF THE CIRCUMFERENCE OF THE COLUMN SIMULTANEOUSLY, FOR THE FULL CURING PERIOD.

ALL EXISTING REINFORCEMENT TO REMAIN



SECTION J-J  
NOT TO SCALE

ALL EXISTING REINFORCEMENT TO REMAIN



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	318	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093572

- NOTES:
1. ALL REINFORCEMENT TO REMAIN.
  2. RESTORE TO ORIGINAL DIMENSIONS.
  3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS), SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES.
  8. SEE DWG. PR17-2S FOR SECTIONS A-A, D-D AND DETAIL "A"
  9. SEE DWG. PR17-2H FOR SECTION J-J
  10. PEDESTAL 4 SHALL BE REPLACED TO EXISTING DIMENSIONS. ITEM 555.0105 M
  11. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  12. FOR JACKING NOTES SEE DWG. PR17-1S
  13. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAPBEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

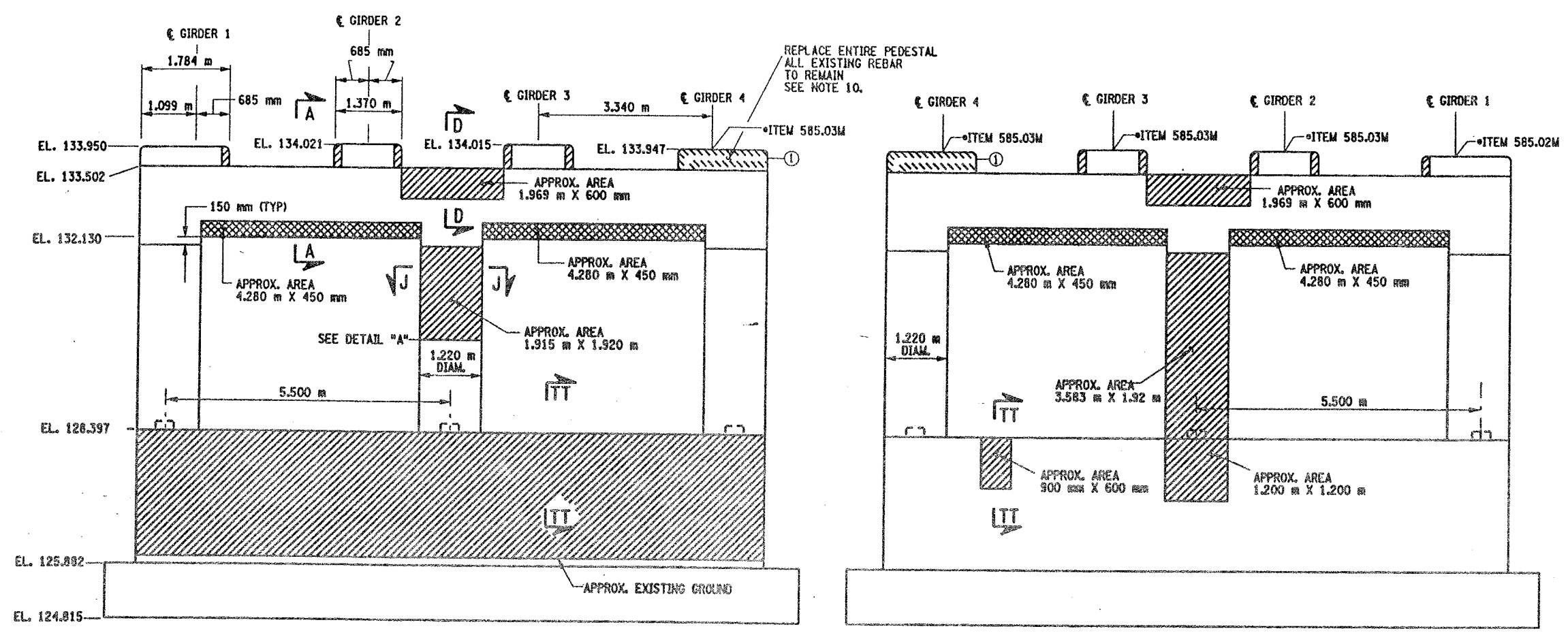
JACKING LOADS:  
D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL. (CM)
  - ITEM 580.01 M - REMOVAL OF STRUCTURAL CONCRETE. (CM) AND ITEM 555.0105 M - CONCRETE FOR STRUCTURES CLASS A. (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

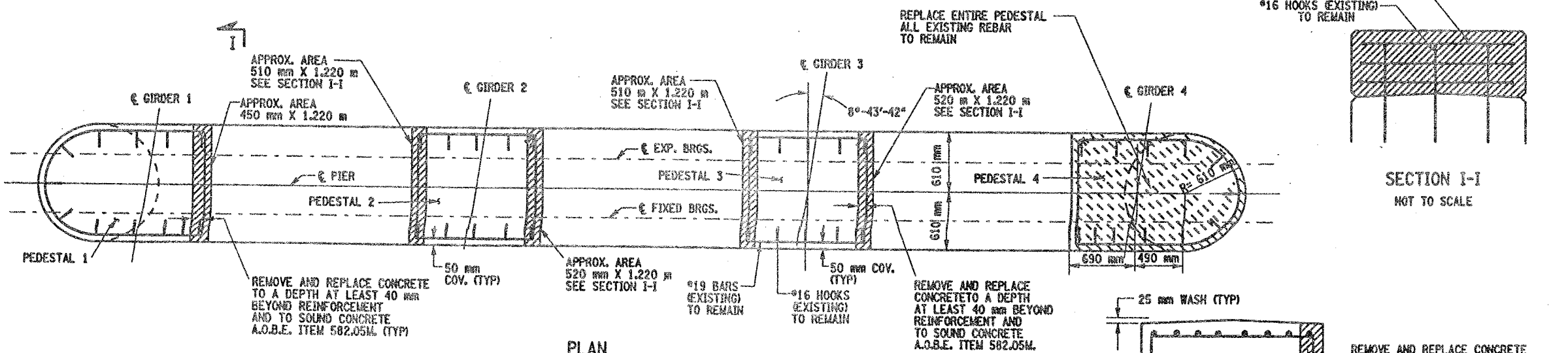
AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 3	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P3A	REGION 3
DATE 10/02	DRAWING NO. PR17-3H



PIER 3 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

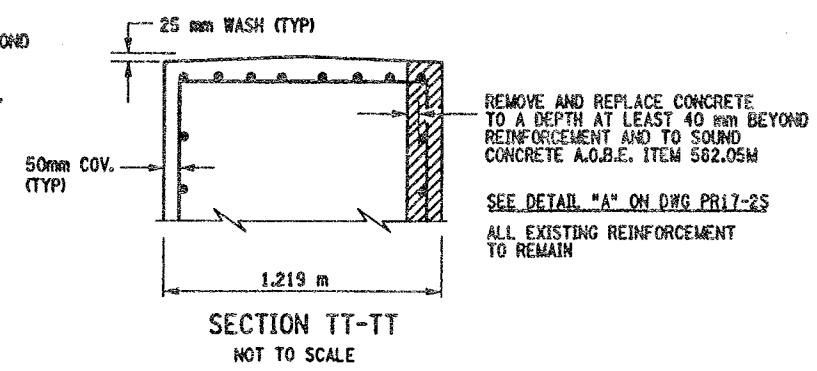
PIER 3 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50



PLAN  
SCALE: 1 TO 25

- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 555.0105M - CONCRETE FOR STRUCTURES CLASS A (CM)
  - ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (CM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	0.90	555.0105M



SECTION I-I  
NOT TO SCALE



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	319	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093572		

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 AND BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
  - SEE DWG. PR17-2S FOR SECTIONS A-A, D-D AND DETAIL "A".
  - SEE DWG. PR17-4S FOR SECTION O-O.
  - SEE DWG. PR17-2N FOR SECTION L-L.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.
  - CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

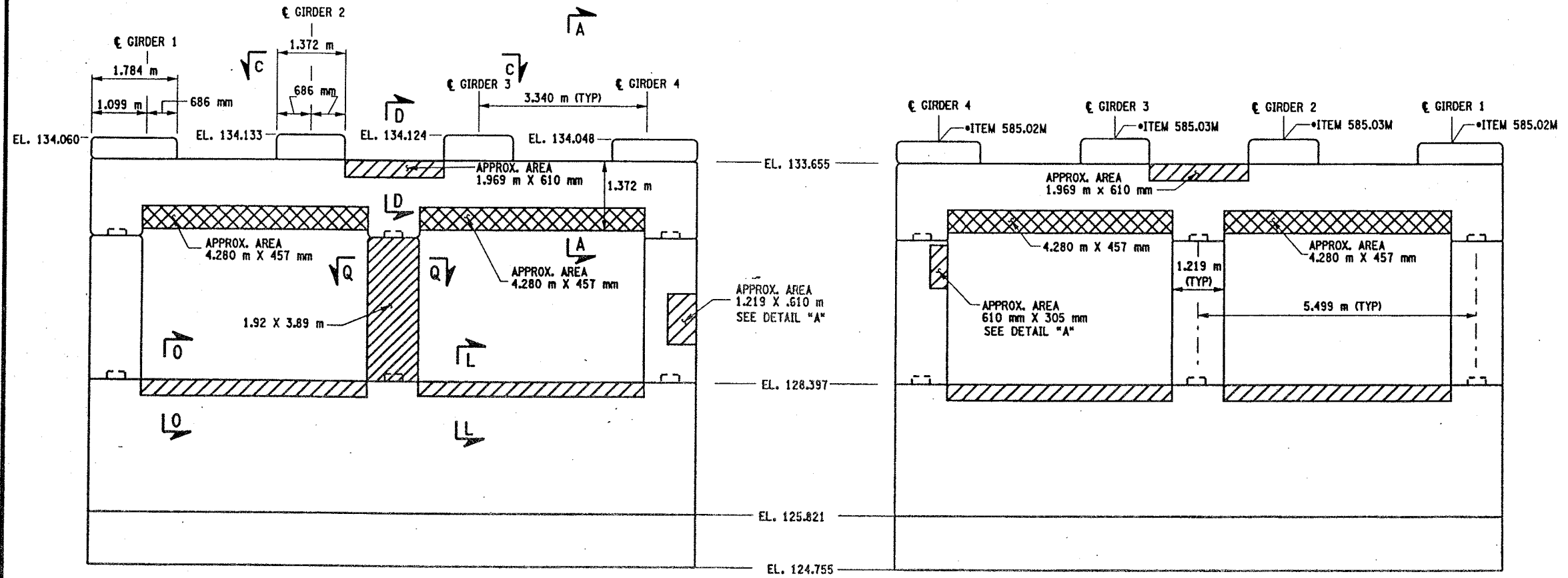
• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

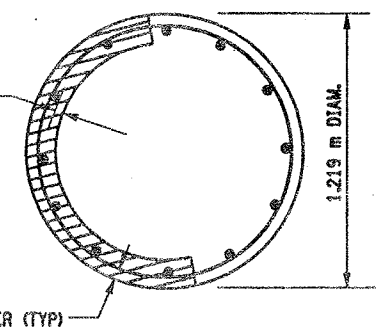
- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONC. REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

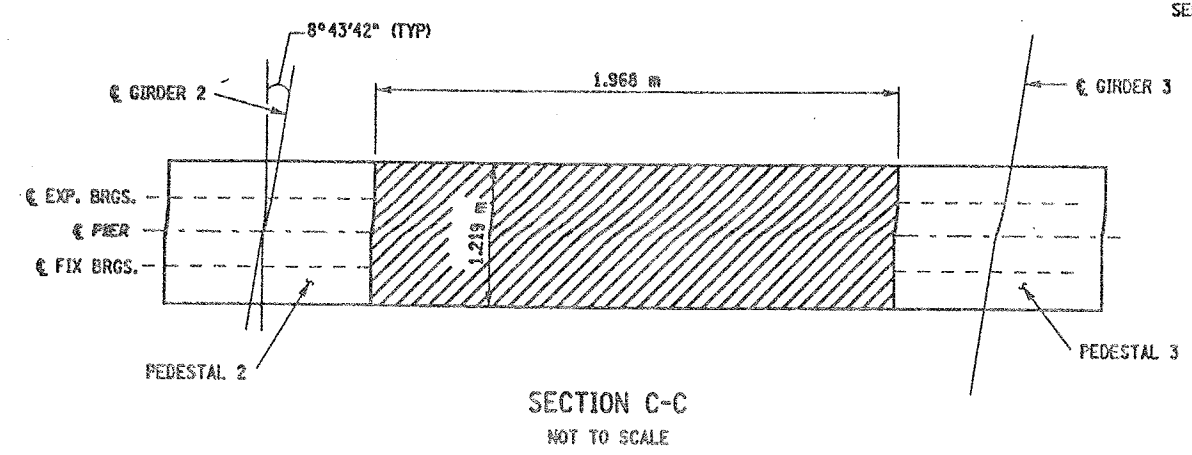
AS BUILT REVISIONS			
SIGNATURE	DATE		
INTERSTATE 481 NB OVER CSX RAILROAD PIER 4			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P4A	REGION 3	DATE 10/02	DRAWING NO. PR17-4N



REMOVE AND REPLACE CONCRETE TO A DEPTH AT LEAST 40 mm BEYOND REINFORCEMENT AND TO SOUND CONCRETE A.O.B.E. ITEM 582.05M SEE DETAIL "A" THIS SHEET



THE CONTRACTOR SHALL ONLY REMOVE AND REPLACE CONCRETE ON 1/4 OF THE CIRCUMFERENCE OF THE COLUMN SIMULTANEOUSLY, FOR THE FULL CURING PERIOD.



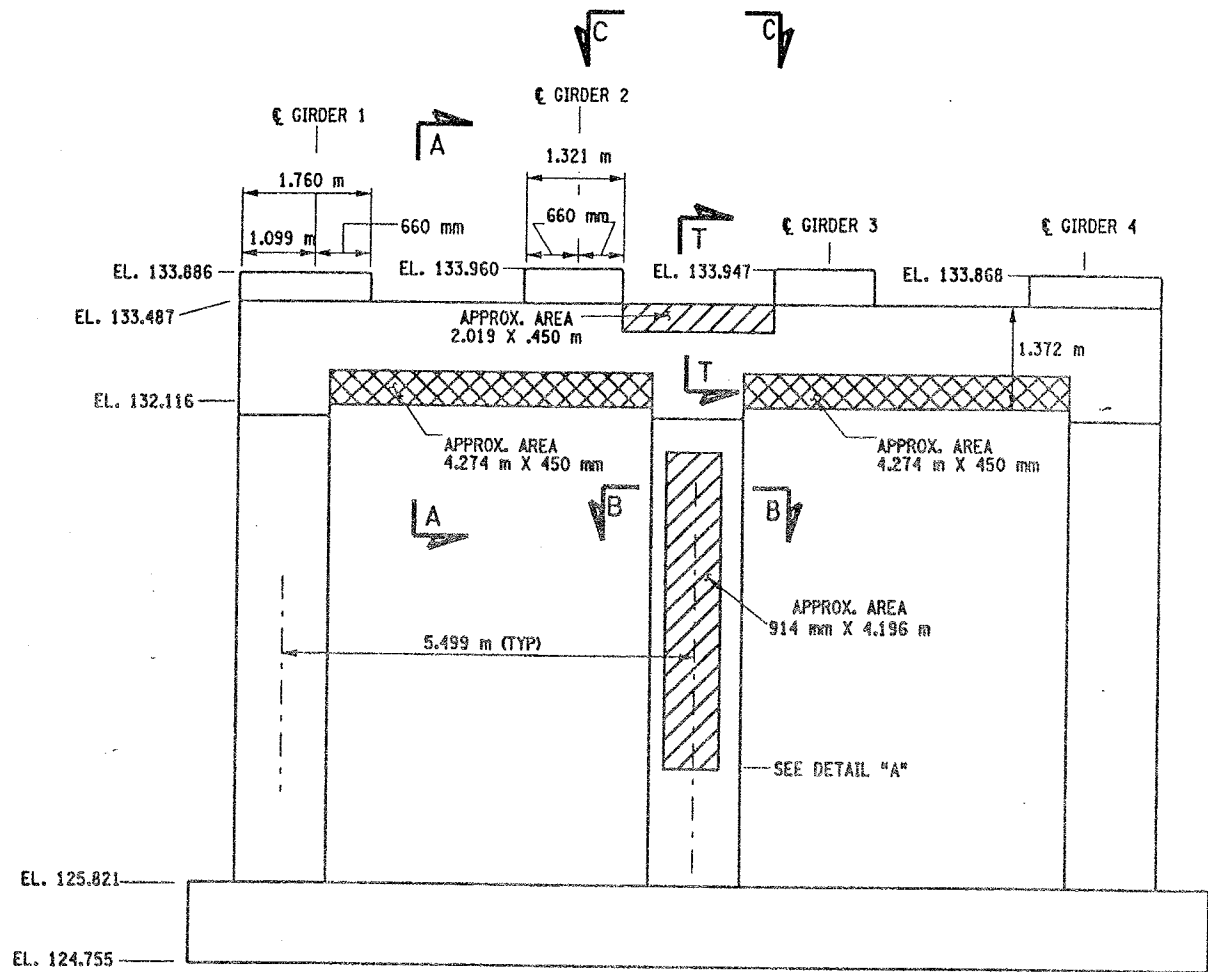
- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/VERT. OVERHEAD PATCH MAT'L (CM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



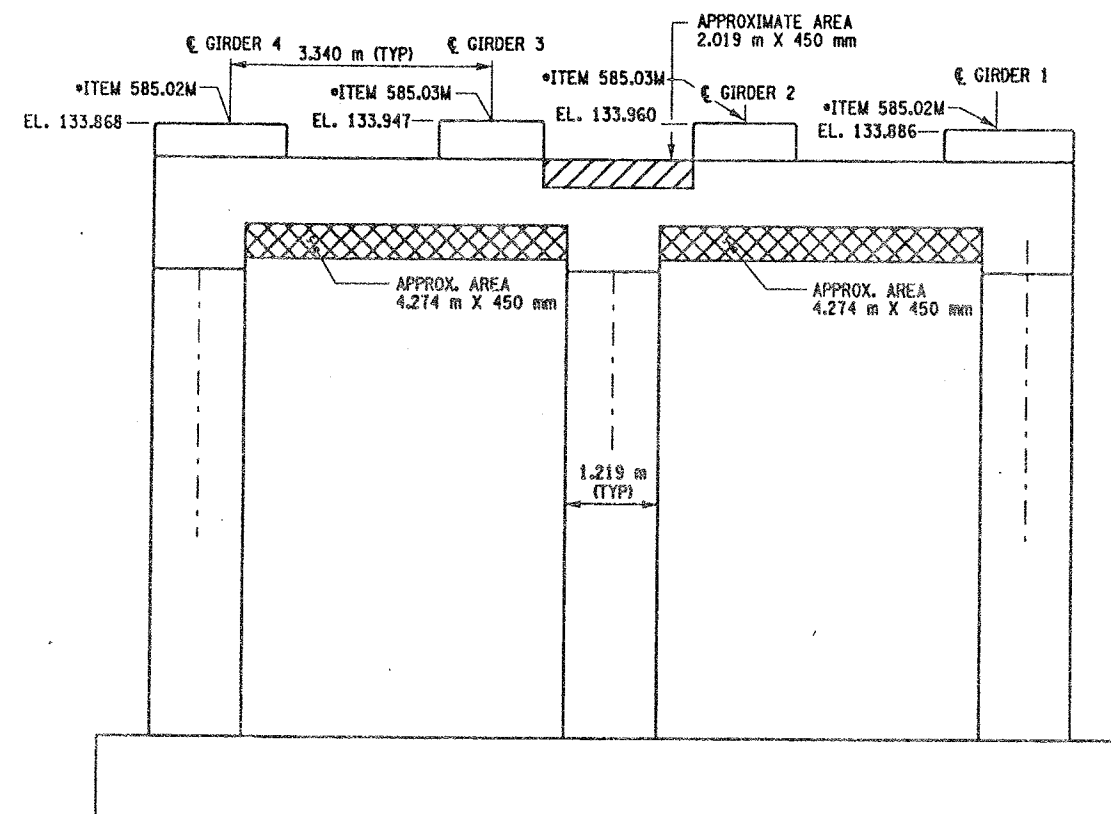
CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	320	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

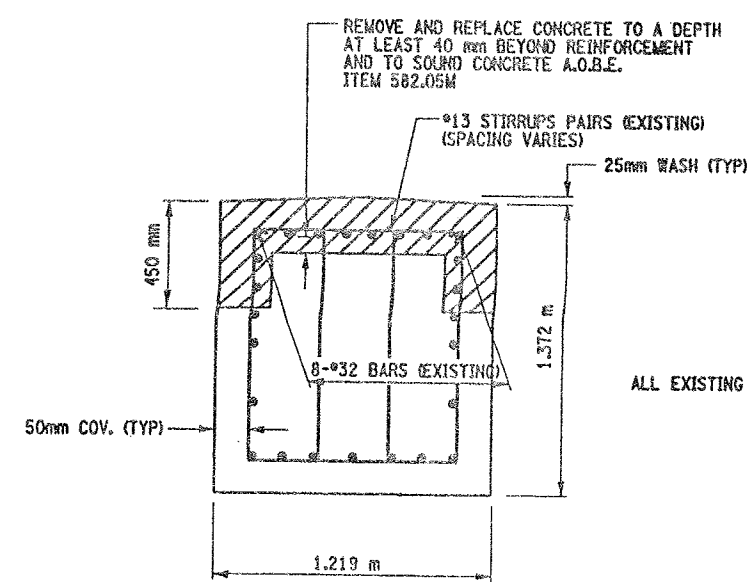
- NOTES:
1. ALL REINFORCEMENT TO REMAIN.
  2. RESTORE TO ORIGINAL DIMENSIONS.
  3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
  8. SEE DWG. PR17-2S FOR SECTION A-A AND B-B AND DETAIL "A".
  9. SEE DWG. PR17-1S FOR SECTION C-C.
  10. ALL CONCRET REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  11. FOR JACKING NOTES SEE DWG. PR17-1S.
  12. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS OF CONTRACT.



PIER 5 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50



PIER 5 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50



SECTION T-T  
NOT TO SCALE

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
O.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

ALL EXISTING REINFORCEMENT TO REMAIN

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (CM)

- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (CM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

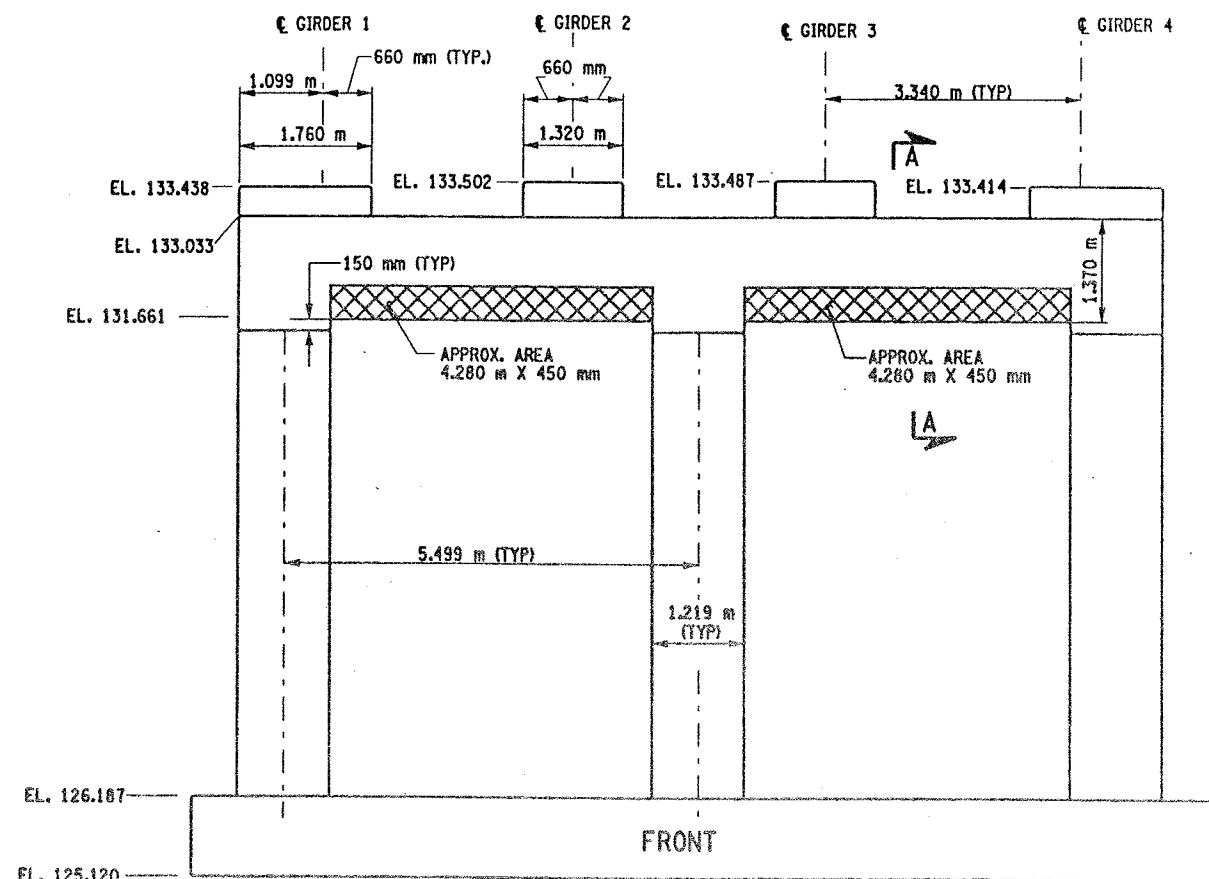
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 5			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P5A	REGION 3	DATE 10/02	DRAWING NO. PR17-5M



DESIGN SUPERVISOR  
JOB MANAGER  
DESIGNED BY  
CHECKED BY  
ESTIMATED BY  
DRAFTED BY  
CHECKED BY

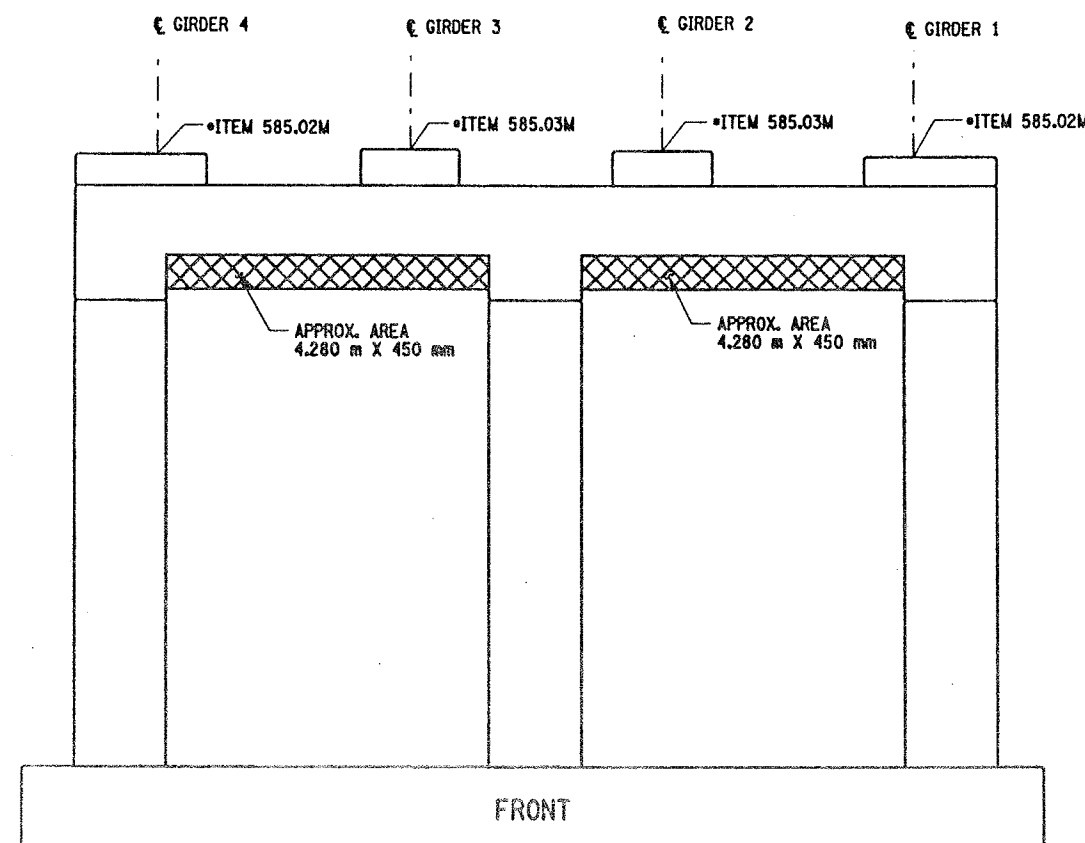
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	321	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	



PIER 6 -FRONT FACE (LOOKING NORTH)

BIN 1093572

SCALE: 1 TO 50



PIER 6 BACK FACE (LOOKING SOUTH)

BIN 1093572

SCALE: 1 TO 50

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES.
8. SEE DWG. PR17-25 FOR SECTION "A-A".
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
10. FOR JACKING NOTES SEE DWG. PR17-15.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND



ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 NB  
OVER  
CSX RAILROAD YARD  
PIER 6



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.  
305613AE.P6A 3 10/02 PR17-6N

LIST OF ITEMS USED:

ITEM 15565.4302M- BRIDGE BEARING RESTORATION (EA)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	322	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
9. FOR JACKING NOTES SEE DWG. PR17-15.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

NOT TO SCALE

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481 NB  
OVER  
CSX RAILROAD YARD  
PIER 7

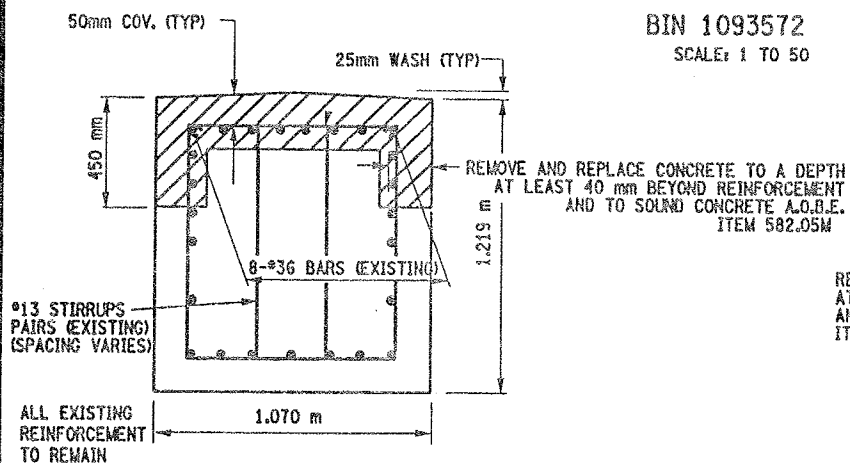
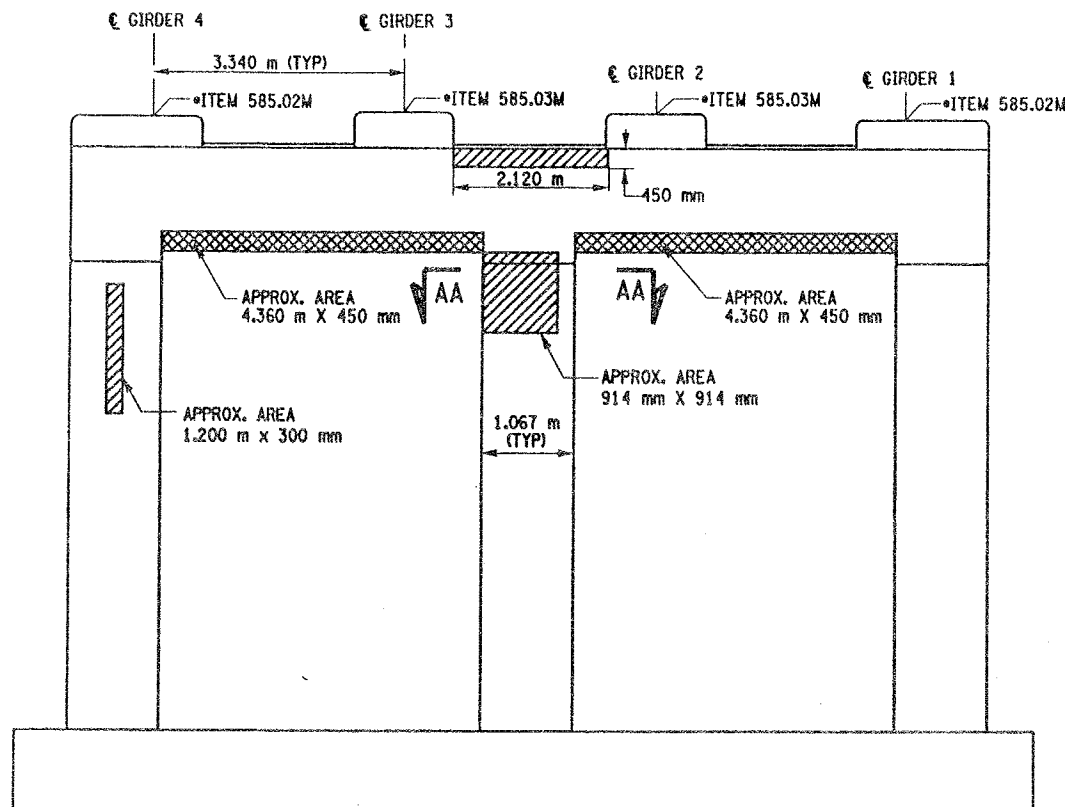
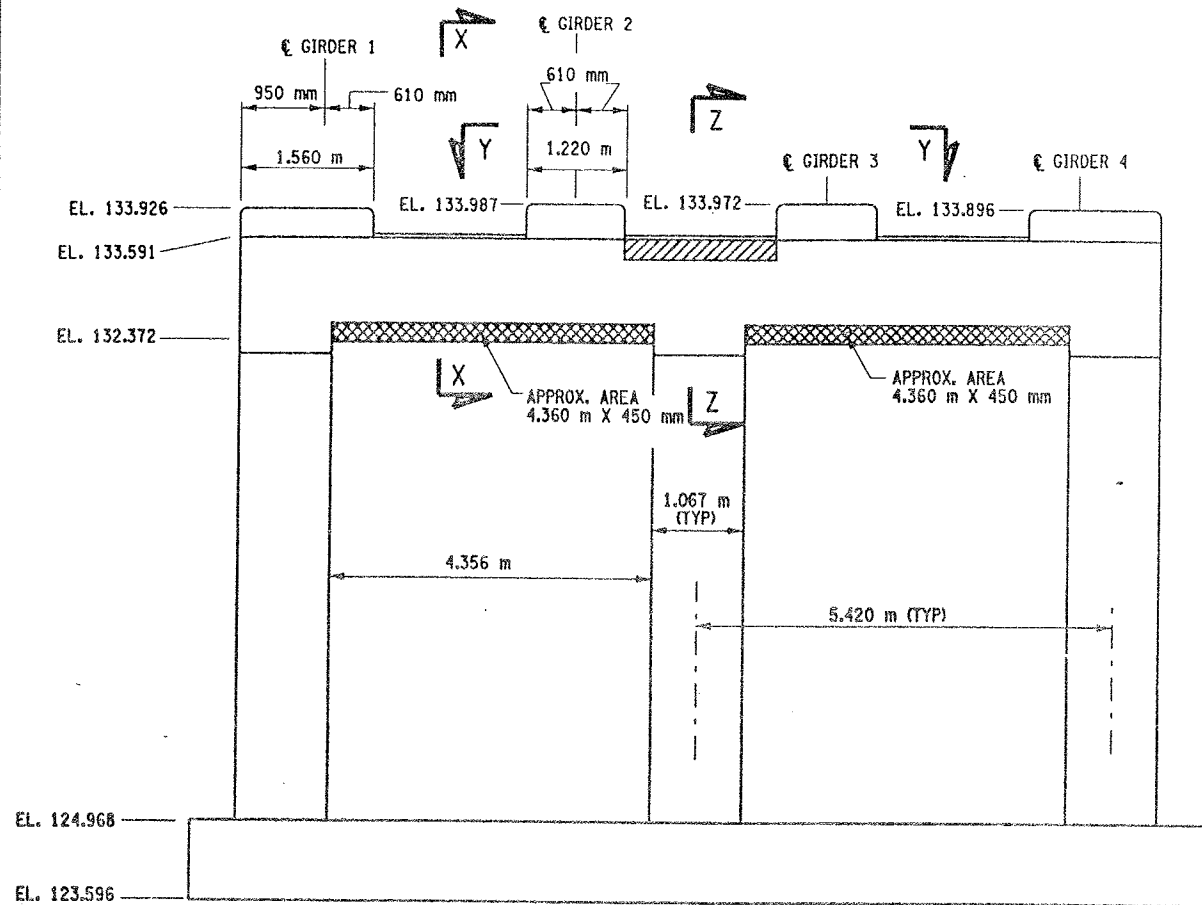
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME  
305613AE.PTA

REGION  
3

DATE  
10/02

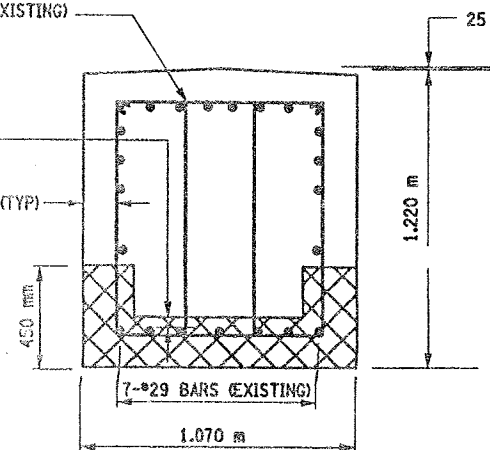
DRAWING NO.  
PR17-7N



#13 STIRRUPS PAIRS (EXISTING)  
(SPACING VARIES)

REMOVE AND REPLACE CONCRETE TO A DEPTH  
AT LEAST 40 mm BEYOND REINFORCEMENT  
AND TO SOUND CONCRETE A.O.B.E.  
ITEM 582.07M

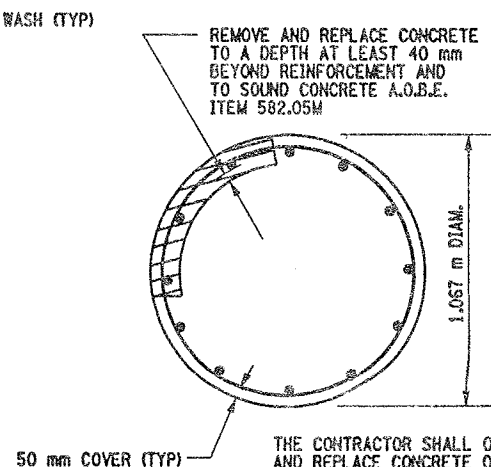
50mm COV. (TYP)



ALL EXISTING REINFORCEMENT TO REMAIN

SECTION X-X

NOT TO SCALE



SECTION AA-AA

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	323	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
  - SEE DWG. PR17-12S FOR SECTION BB-BB.
  - SEE DWG. PR17-7N FOR SECTION X-X.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

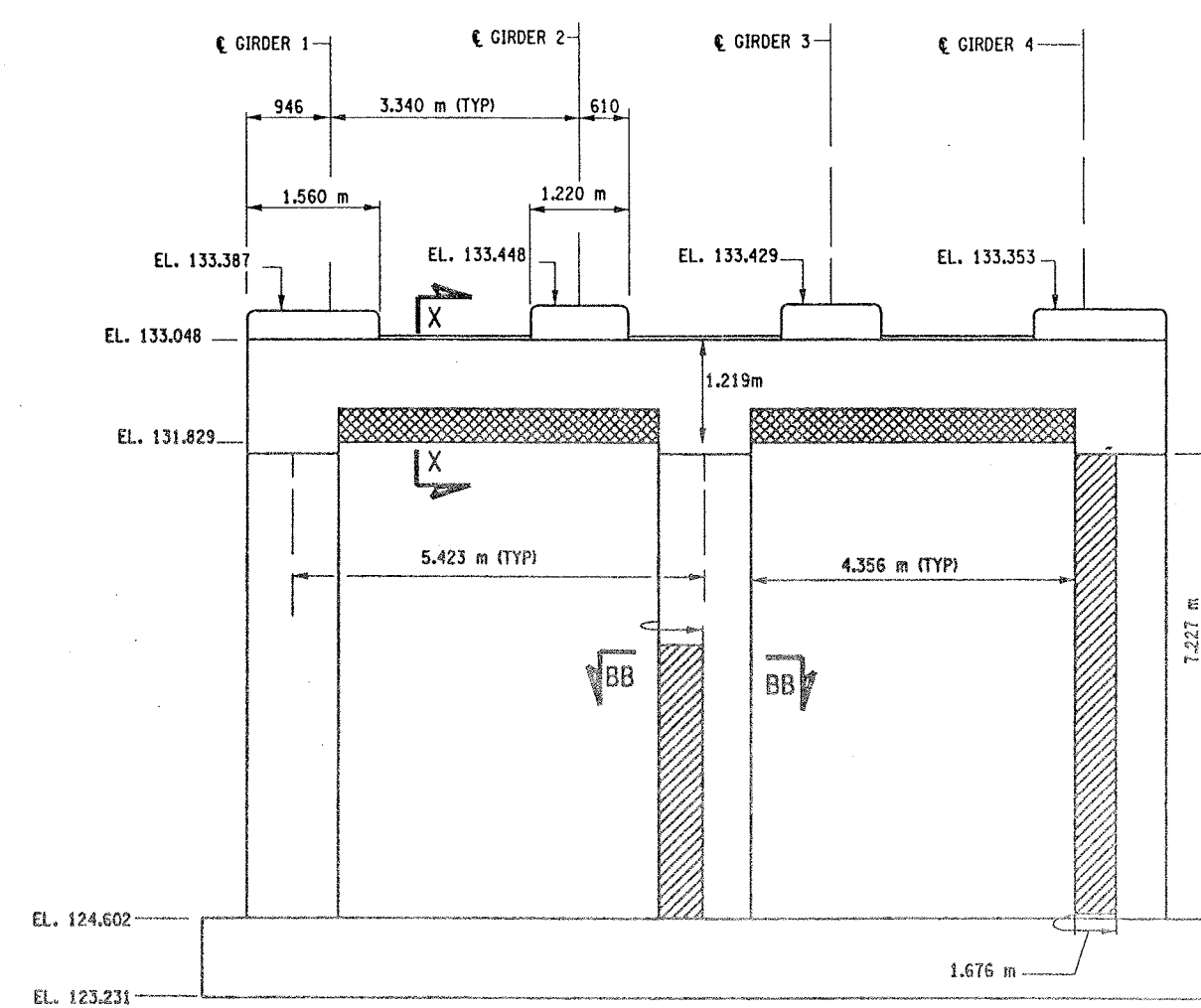
- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

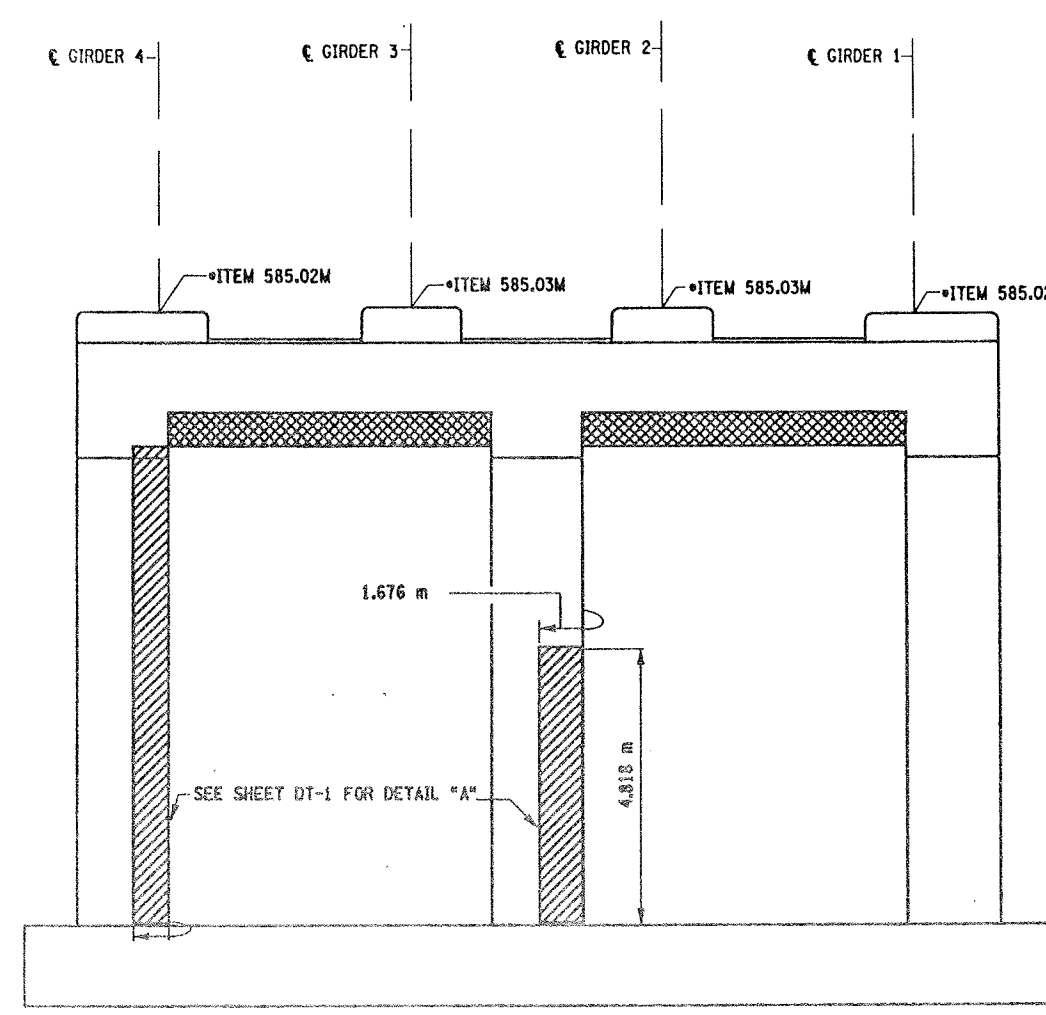
AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 8	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P8A	REGION 3
DATE 10/02	DRAWING NO. PR17-8N

- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EAI)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EAI)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EAI)



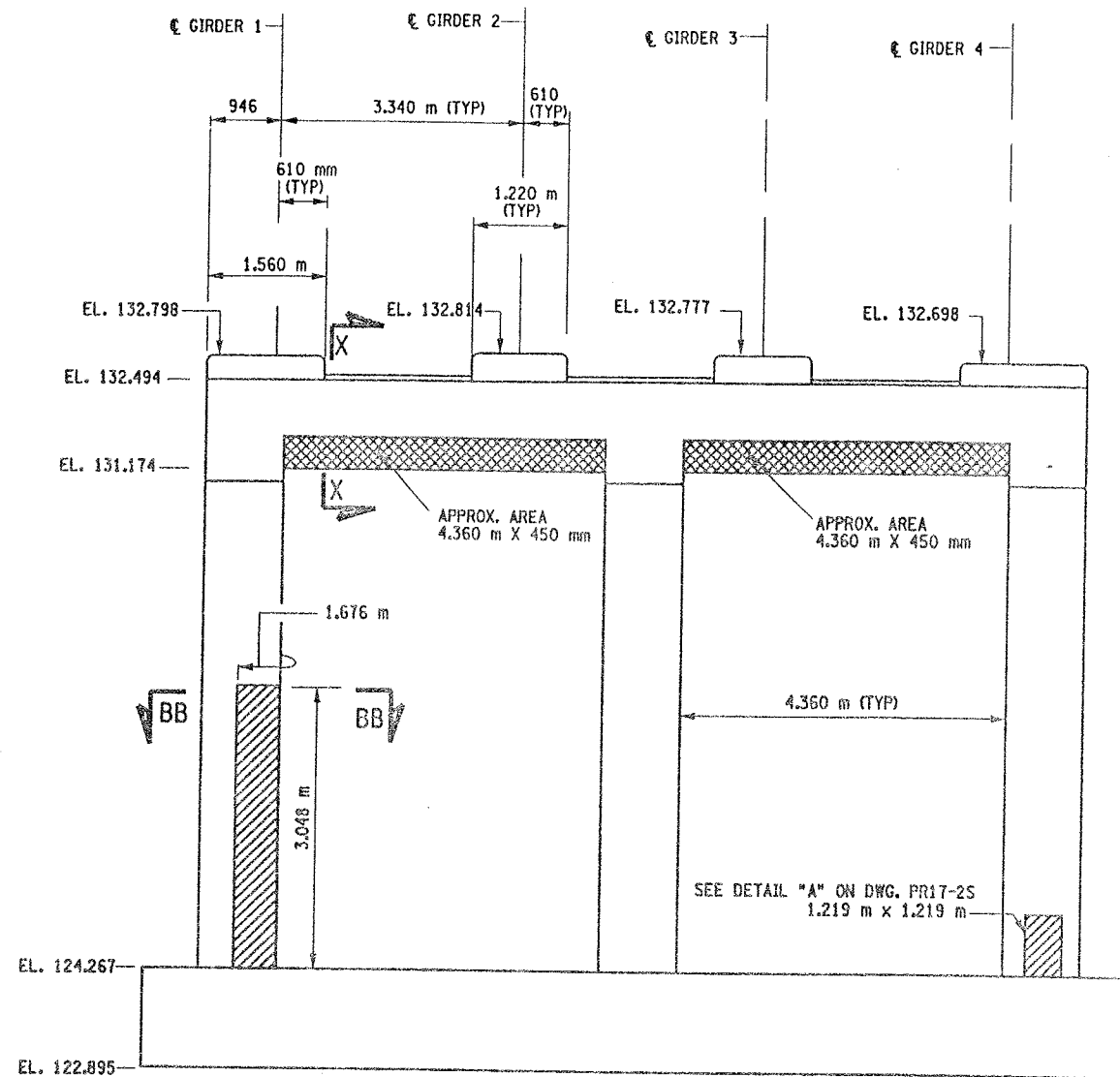
PIER 8 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50



PIER 8 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50



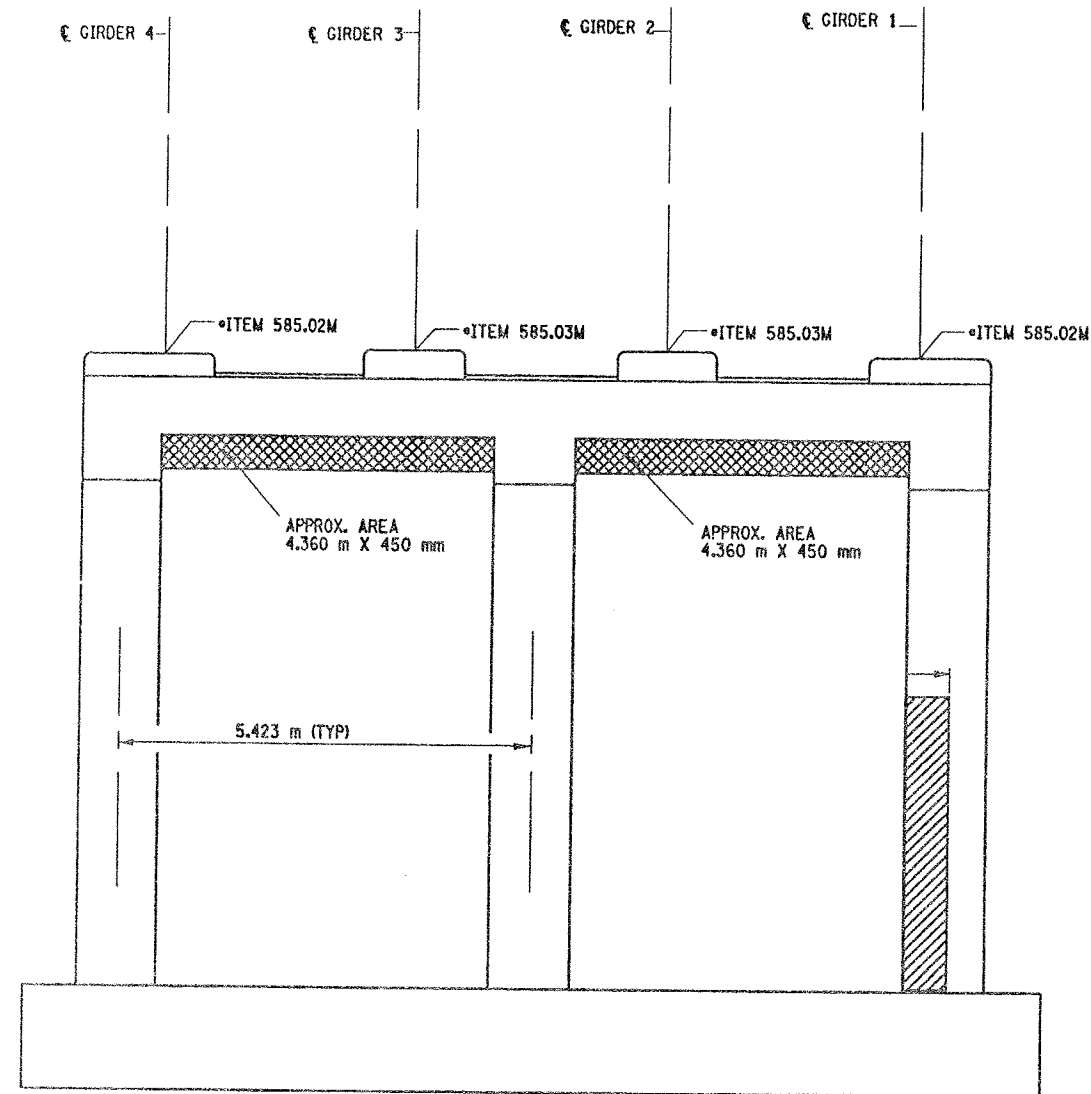
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DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



PIER 9 - FRONT FACE (LOOKING NORTH)

BIN 1093572

SCALE: 1 TO 50



PIER 9 - BACK FACE (LOOKING SOUTH)

BIN 1093572

SCALE: 1 TO 50

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	324	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:



1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. SEE DWG. PR17- 12S FOR SECTION BB-BB.
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
10. FOR JACKING NOTES SEE DWG PR17-1S
11. SEE DWG. PR17-7N FOR SECTION X - X.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

-  ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
-  ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE ROUTE 481 NB  
OVER CSX RAILROAD YARD  
PIER 9

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P9A	3	10/02	PR17-9N



CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	325	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093572		

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - FOR SECTION AA-AA SEE DWG. PR17-7N.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

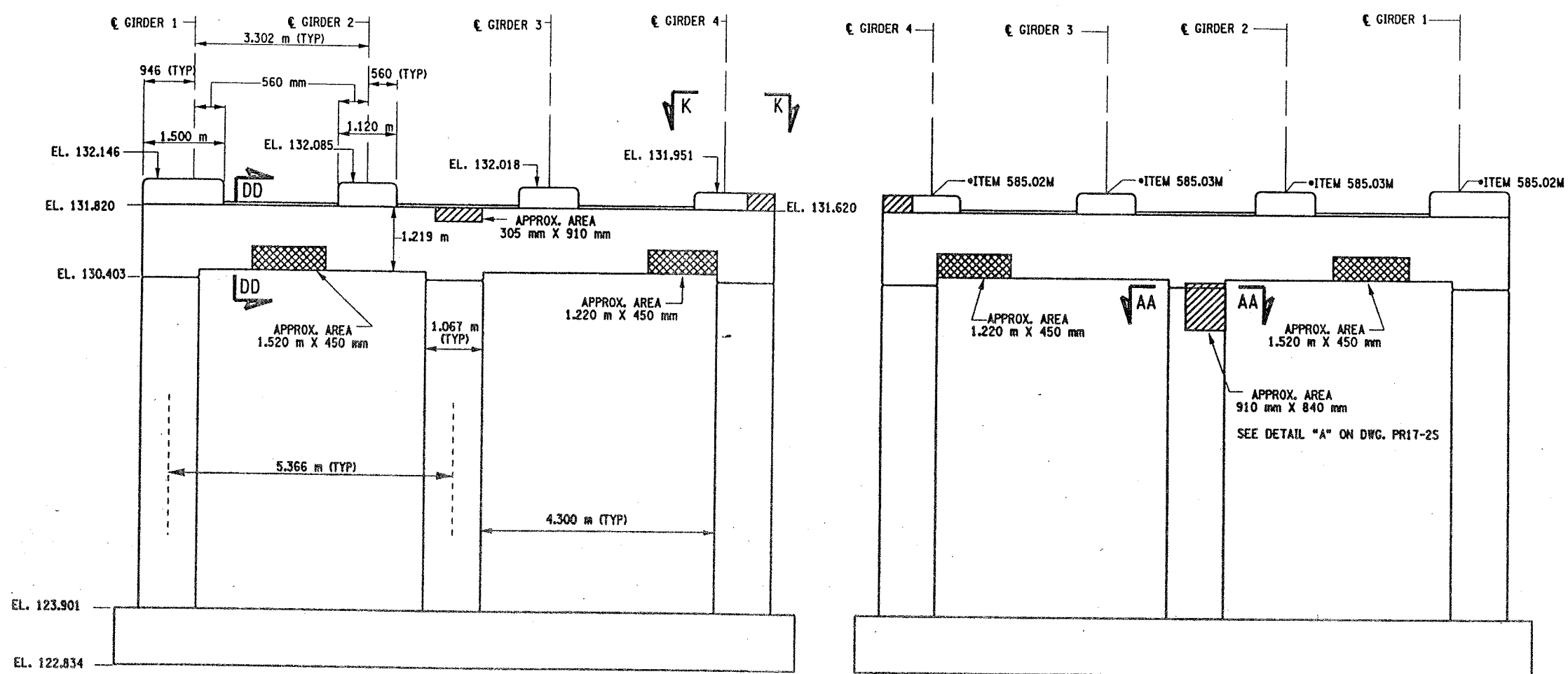
\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

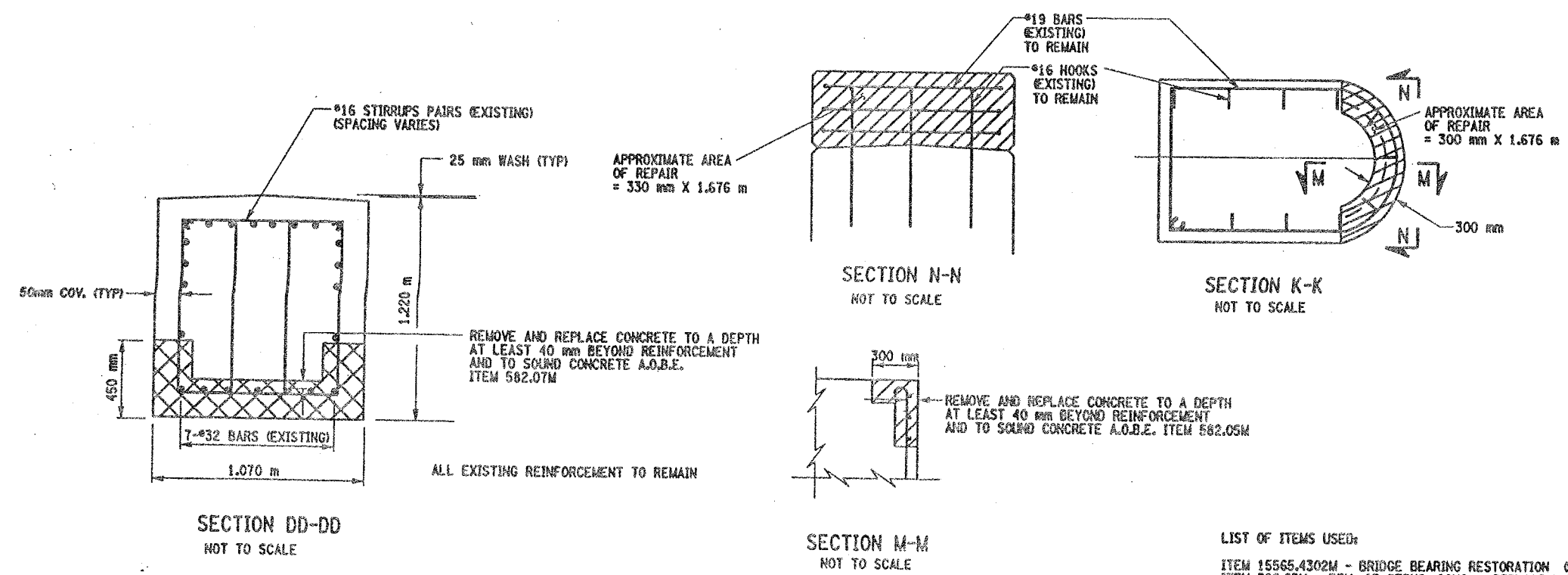
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 10			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P10	REGION 3	DATE 10/02	DRAWING NO. PR17-10N



PIER 10 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

PIER 10 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50

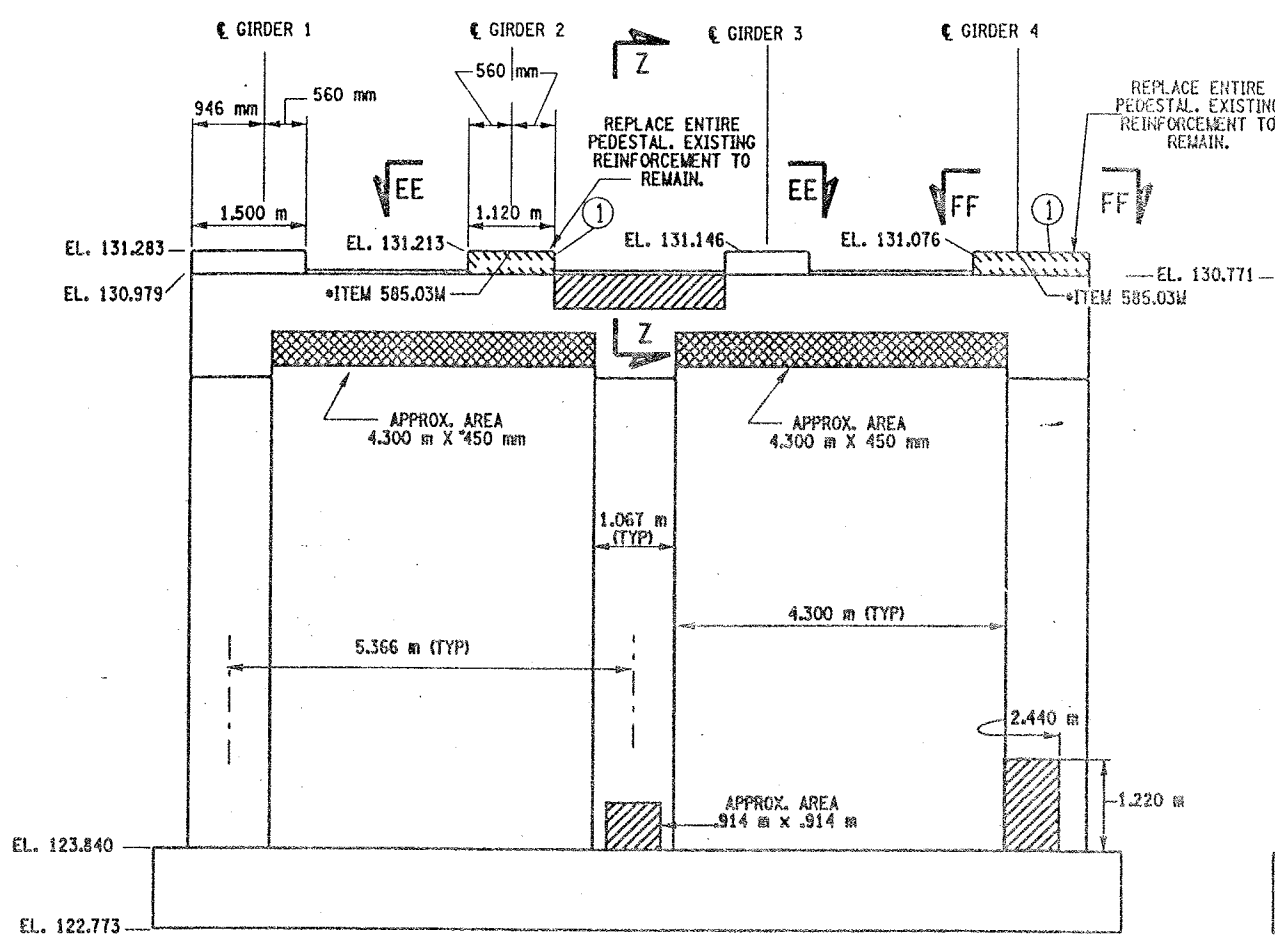


- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (CA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (CA)

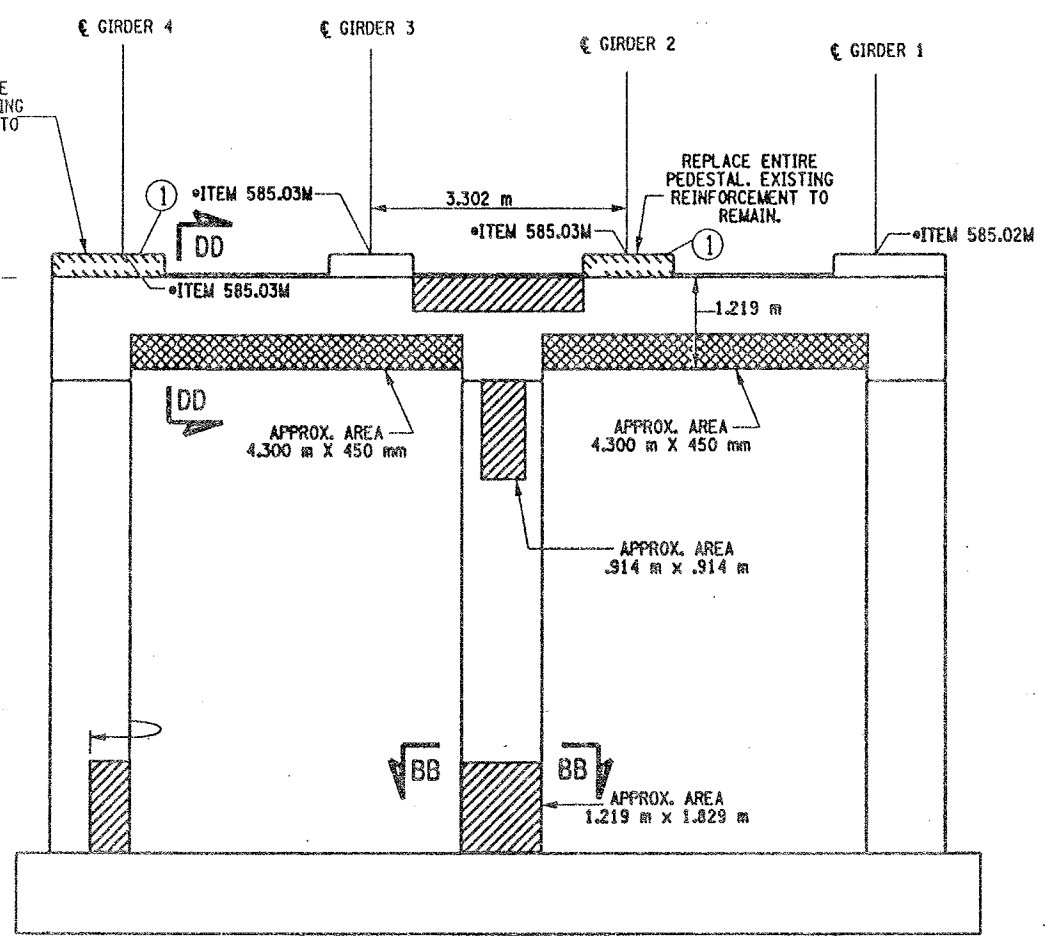


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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	326	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

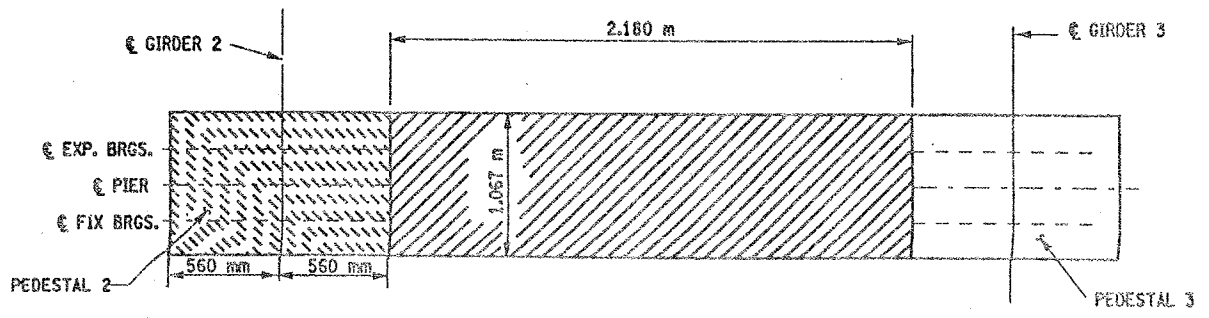


PIER 11 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

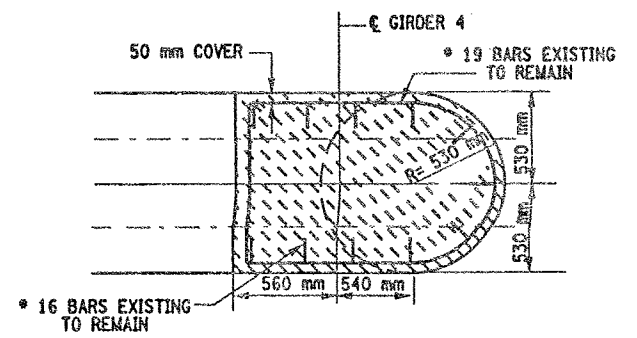


PIER 11- BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50

① INDICATES CONCRETE PLACEMENT NUMBER



SECTION EE-EE  
NOT TO SCALE



SECTION FF-FF  
NOT TO SCALE

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	0.80	555.0105M

LIST OF ITEMS USED

- ITEM 555.0105M - CONCRETE FOR STRUCTURES, CLASS A (CM)
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
- ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
- ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
- ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. SEE DWG. PR17-10N FOR SECTION DD-DD.
9. SEE DWG. PR17-12S FOR SECTION BB-BB.
10. SEE DWG. PR17-7N FOR SECTION Z-Z.
11. PEDESTALS 2 AND 4 SHALL BE REPLACED TO EXISTING DIMENSIONS, ITEM 555.0105 M
12. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
13. FOR JACKING NOTES SEE DWG. PR17-1S.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)
- ITEM 580.01 M - REMOVAL OF STRUCTURAL CONCRETE. (CM) AND ITEM 555.0105 M - CONCRETE FOR STRUCTURES CLASS A. (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS	
SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 11	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P11	REGION 3
DATE 10/02	DRAWING NO. PR17-11N



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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
		D259214	327	432
1	N.Y.			
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

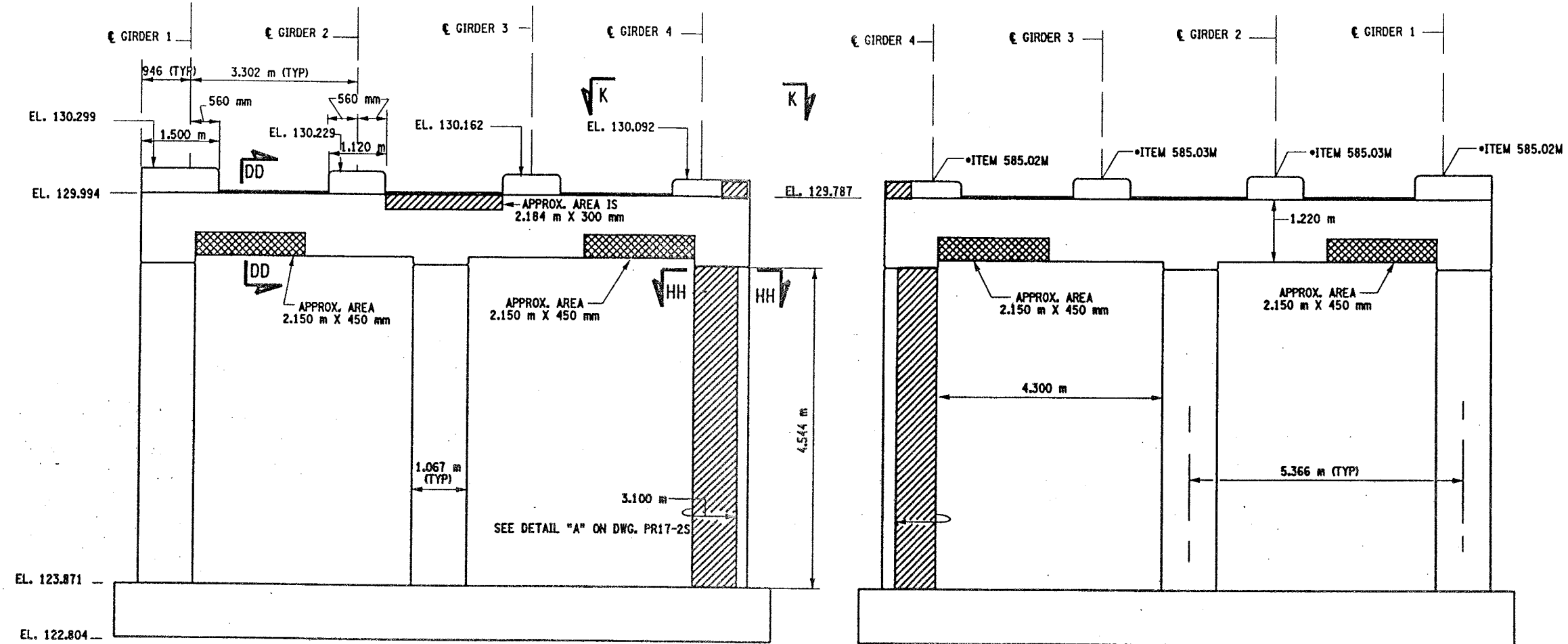
- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG PR17-10N FOR SECTION DO-DD.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED			
<u>AS BUILT REVISIONS</u>			
<u>SIGNATURE</u>		<u>DATE</u>	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 12			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P12	REGION 3	DATE 10/02	DRAWING NO. PR17-12N

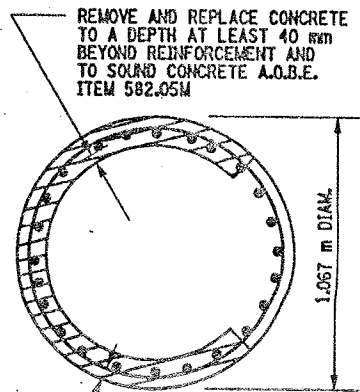


PIER 12 - FRONT FACE (LOOKING NORTH)

BIN 1093572  
SCALE: 1 TO 50

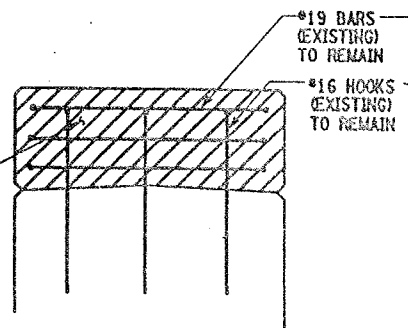
PIER 12 - BACK FACE (LOOKING SOUTH)

BIN 1093572  
SCALE: 1 TO 50

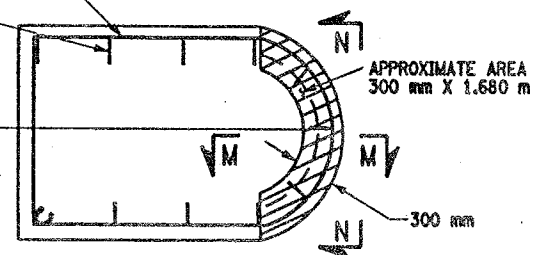


SECTION HH-HH

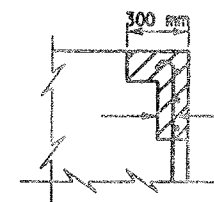
NOT TO SCALE



SECTION N-N  
NOT TO SCALE



SECTION K-K  
NOT TO SCALE



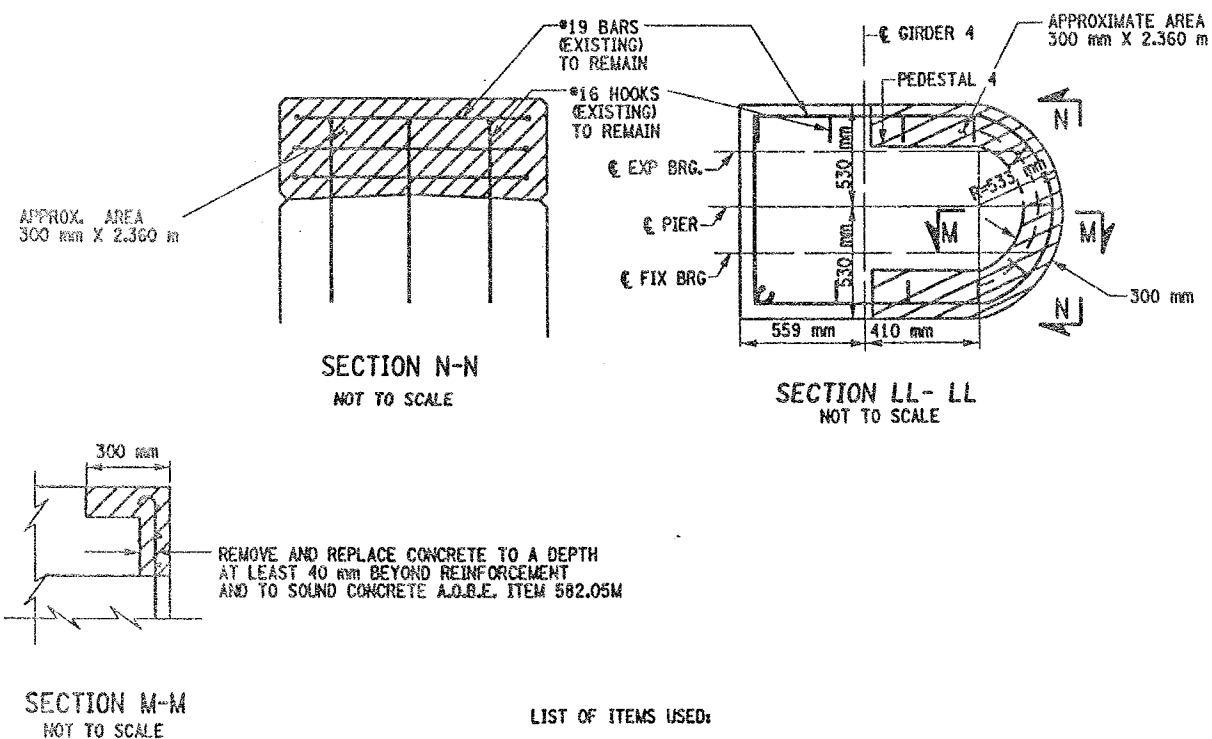
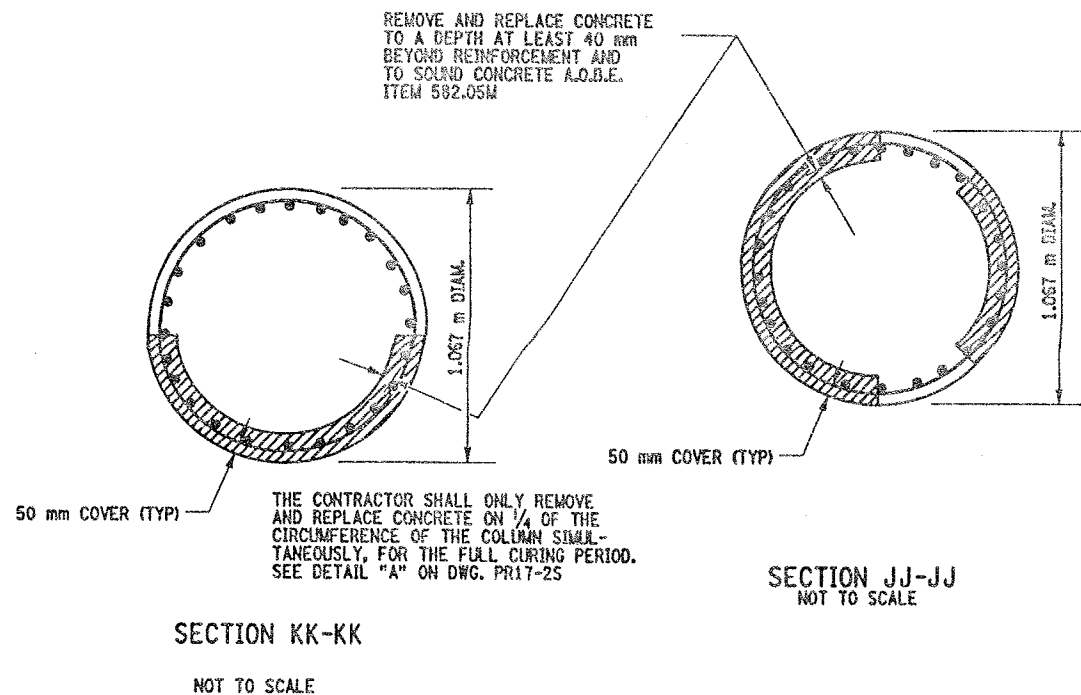
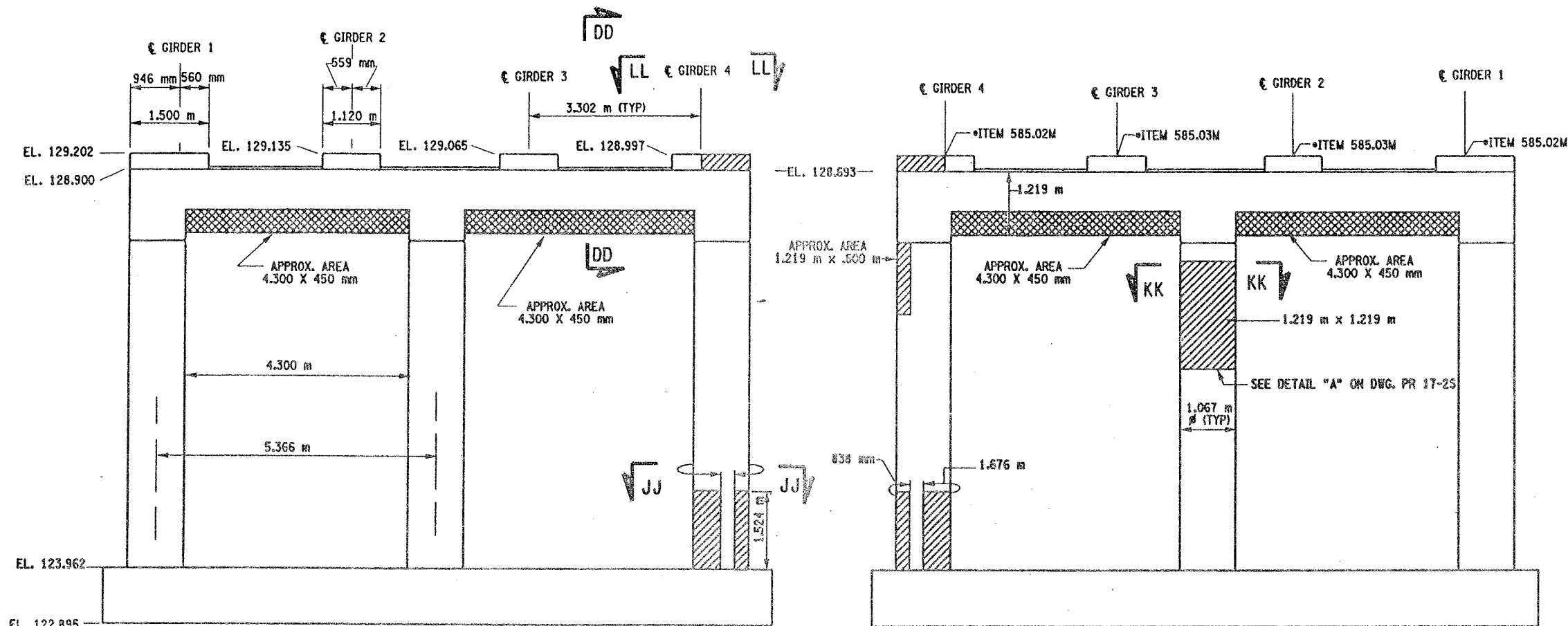
SECTION M-M

NOT TO SCALE

- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	328	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)

VARIOUS BRIDGES ON INTERSTATE 481

TOWNS OF DEWITT AND CICERO

ONONDAGA COUNTY

P.I.N. 305613

B.I.N. 1093572

NOTES:

- ALL REINFORCEMENT TO REMAIN.
- RESTORE TO ORIGINAL DIMENSIONS.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
- ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
- REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
- PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
- SEE DWG. PR 17-10N FOR SECTION DD-DD.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
- FOR JACKING NOTES SEE DWG PR17-15.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481 NB  
OVER  
CSX RAILROAD YARD  
PIER 13

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION



FILENAME  
305613AE.P13

REGION  
3

DATE  
10/02

DRAWING NO.  
PR17-13N



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	329	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093572

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-10N FOR SECTION DD-DD.
  - SEE DWG. PR17-7N FOR SECTION AA-AA.
  - SEE DWG. PR17-13N FOR SECTION KK-KK.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

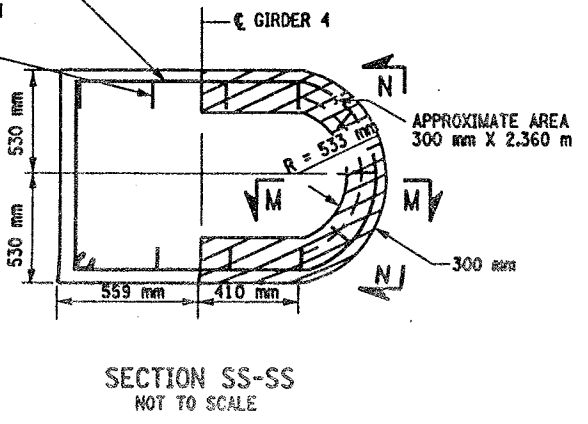
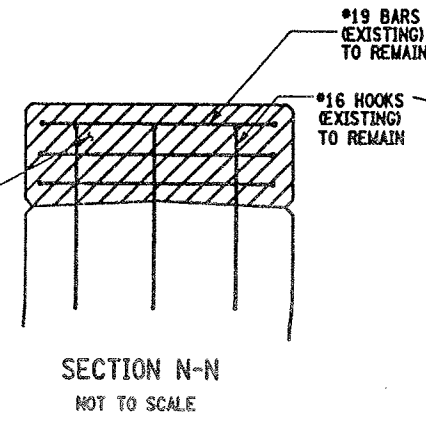
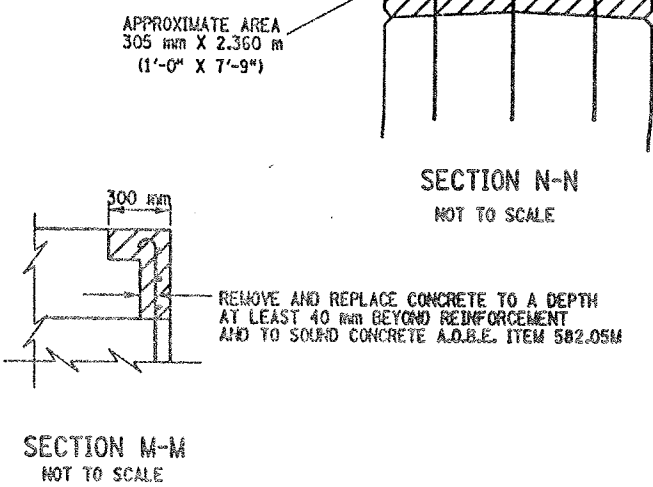
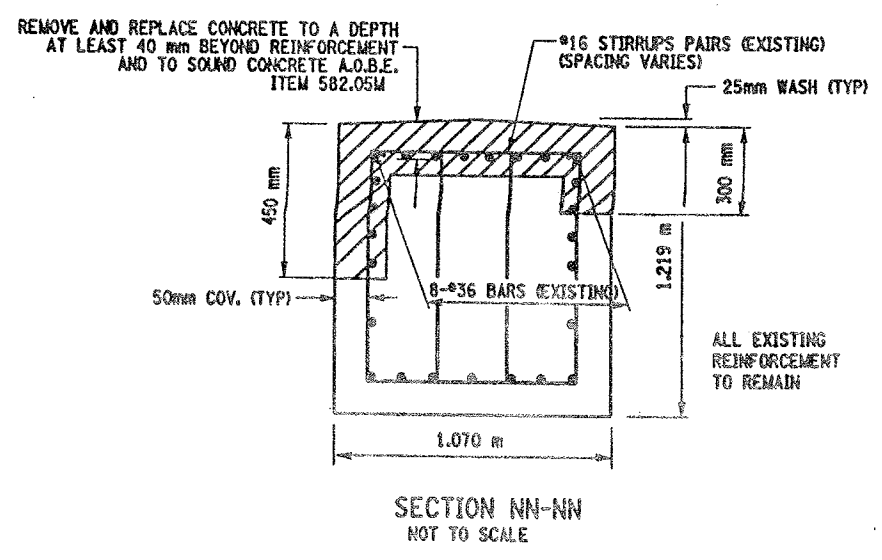
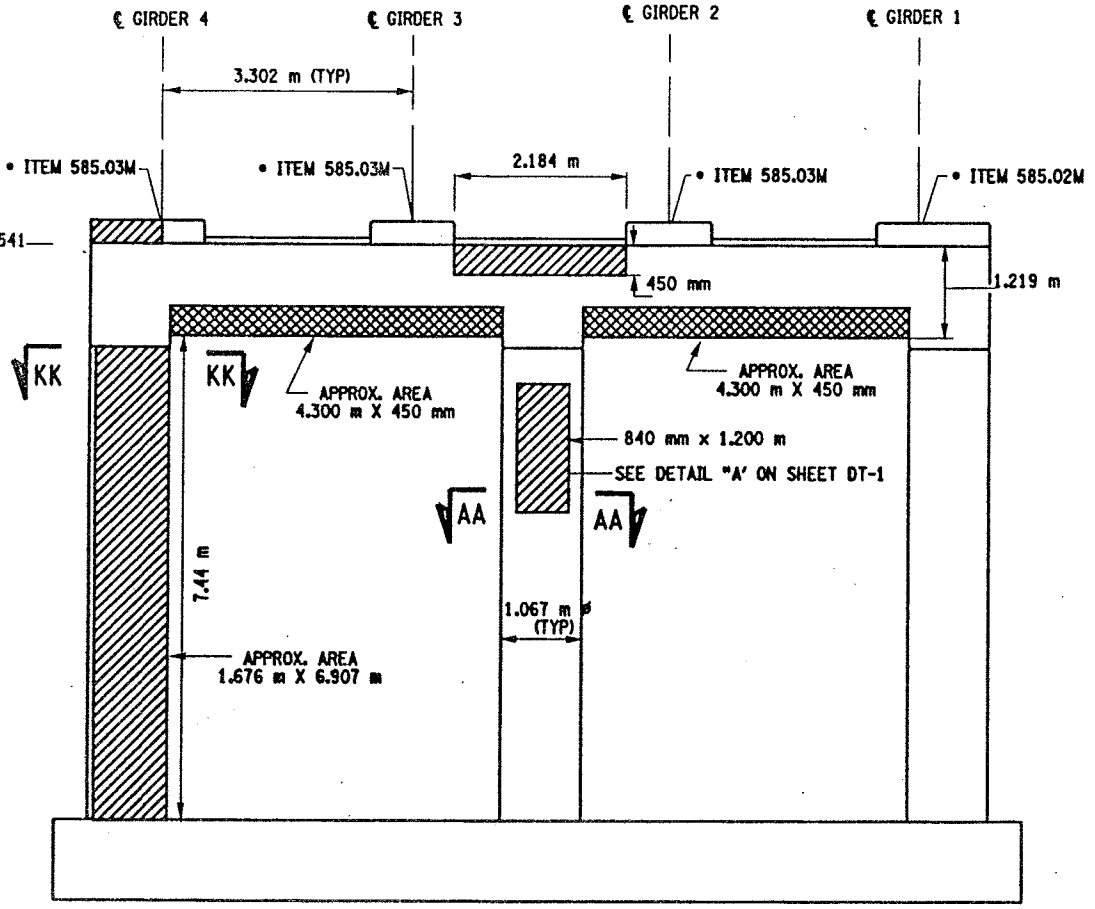
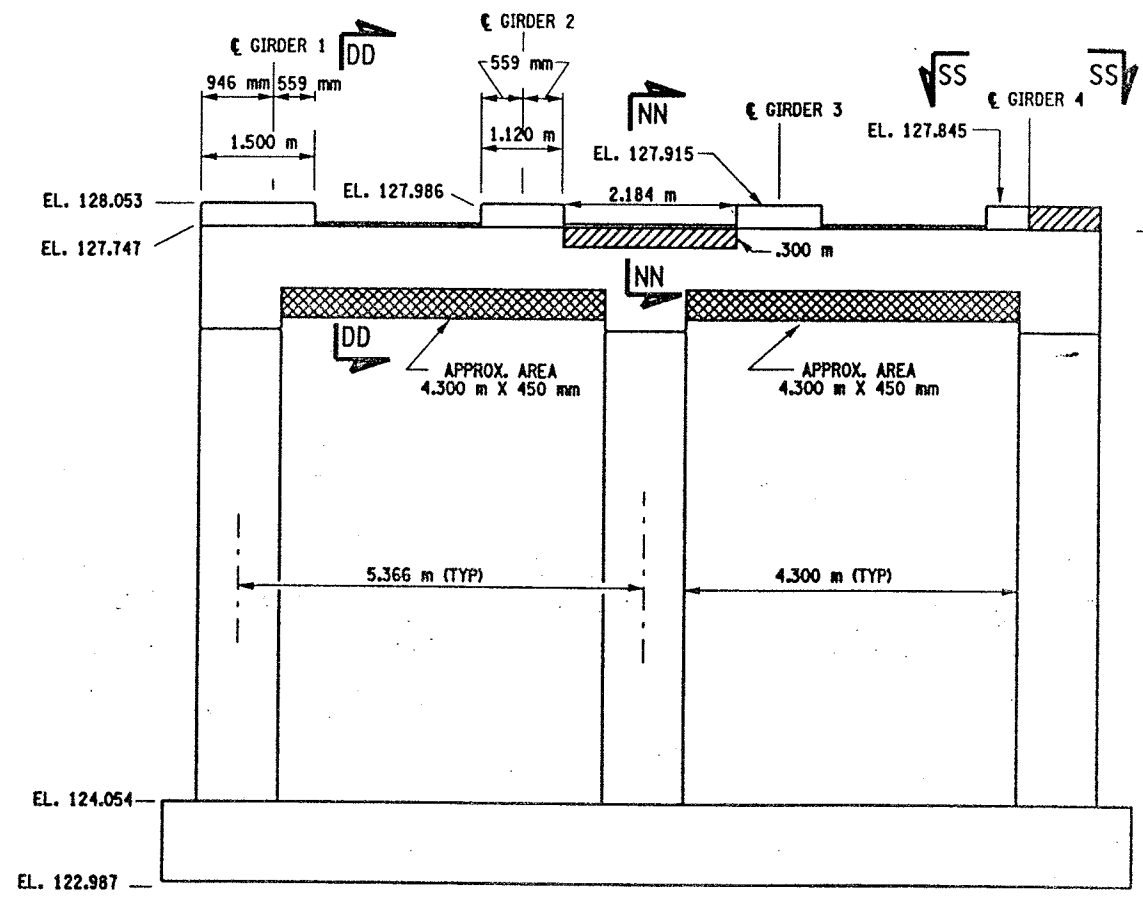
• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

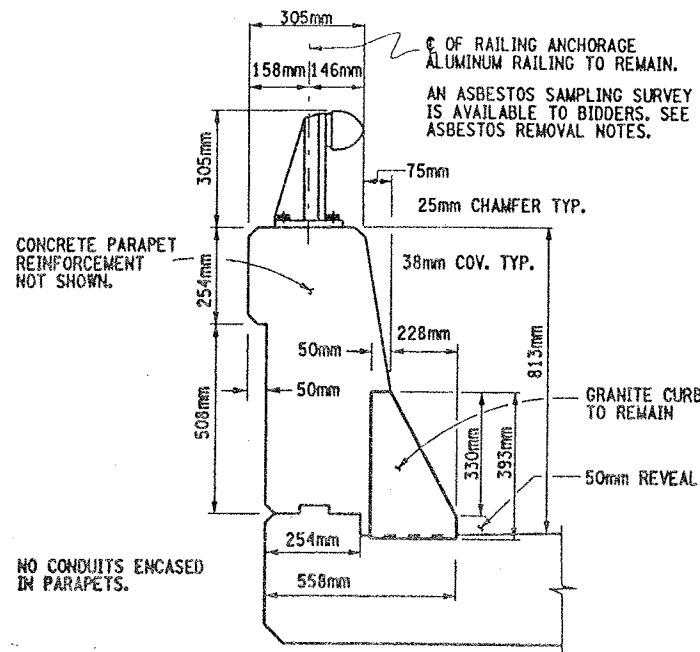
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INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 14			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P14	REGION 3	DATE 10/02	DRAWING NO. PR17-14N



- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

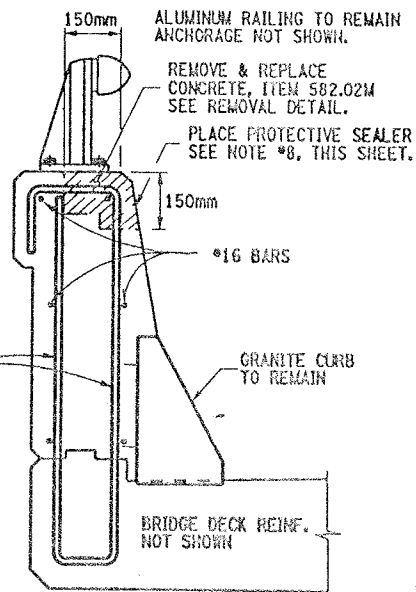


CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



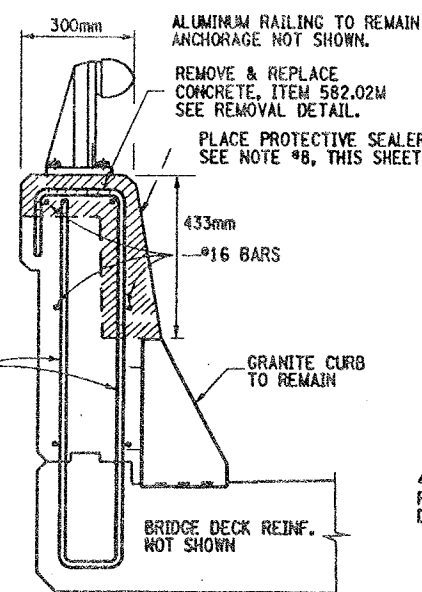
TYPICAL SECTION THRU SUPERSTRUCTURE  
PARAPET CONCRETE DETAILS

NOT TO SCALE



I REPAIR DETAILS  
150mmX150mm TOP

NOT TO SCALE



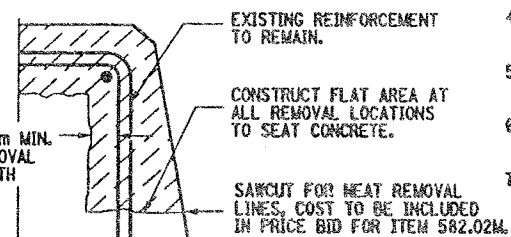
II REPAIR DETAILS  
FULL TOP & FRONT FACE

NOT TO SCALE

CONCRETE REMOVAL NOTES:

REMOVE ALL DETERIORATED CONCRETE TO SOUND CONCRETE AND AT LEAST 40mm BEYOND ENCOUNTERED REINFORCEMENT BARS, ABOVE. PAYMENT TO BE PAID UNDER ITEM 582.05M.

CONCRETE REMOVAL, SAWCUT 6mm DEPTH MINIMUM TO PRODUCE NEAT REMOVAL LINES, ALL COSTS SHALL BE INCLUDED IN PRICE BID FOR ITEM 582.05M.



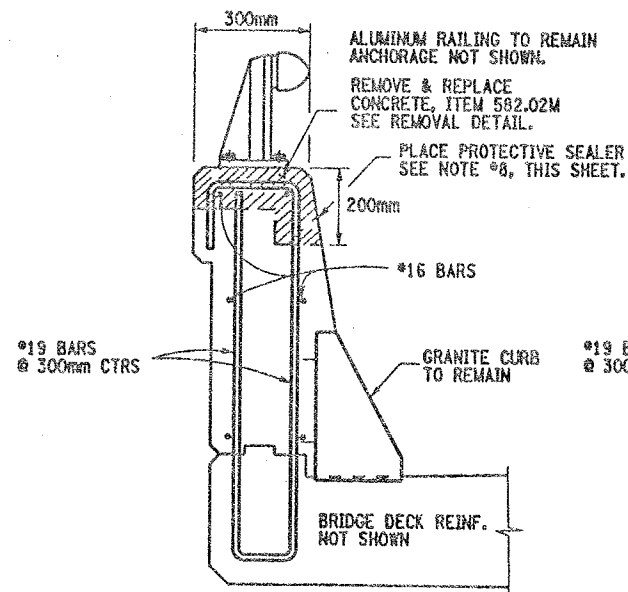
TYPICAL REMOVAL DETAIL

NOT TO SCALE

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	330	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

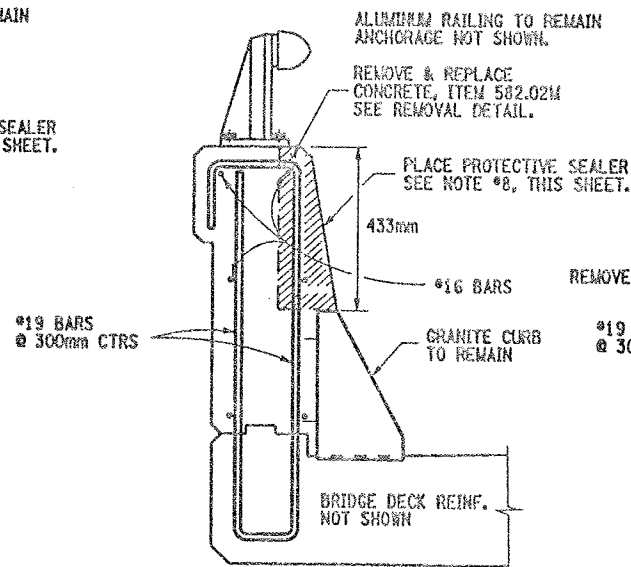
CONCRETE PARAPET REPAIR NOTES:

1. ALUMINUM RAILING TO REMAIN, ANCHORAGE NOT SHOWN.
2. EXISTING PARAPET REINFORCEMENT TO REMAIN.
3. GRANITE CURB TO REMAIN, ANCHOR BARS NOT SHOWN.
4. REMOVAL OF CONCRETE TO LIMITS SHOWN, ABOVE. SEE TYPICAL REMOVAL DETAIL, THIS SHEET.
5. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
6. CONTRACTOR SHALL RESTORE CONCRETE PARAPET TO ORIGINAL DIMENSIONS.
7. IT IS DESIRABLE TO RETAIN ALL EXISTING GRANITE CURB, BUT AT SOME LOCATIONS ADJACENT TO THE JOINT BLOCK-OUTS IT MAY BE NECESSARY TO REPLACE OR REPAIR THE SECTION OF CURB, TO THE SATISFACTION OF THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR ITEM 582.05M.
8. AFTER PARAPET REPAIRS ARE COMPLETED AND SUFFICIENT CURE TIME AS DECIDED BY ENGINEER, APPLY A COATING TYPE PROTECTIVE SEALERS WHICH MEETS MATERIAL SPECIFICATION 717-04. THIS PROTECTIVE SEALER SHALL BE APPLIED TO THE FRONT FACE AND TOP OF ALL PARAPETS (REPAIRED AREAS & ORIGINAL AREAS) TO ENSURE A UNIFORMED APPEARANCE. COST OF THIS SEALER TO BE INCLUDED IN PRICE BID FOR ITEM 18559.1696 M.



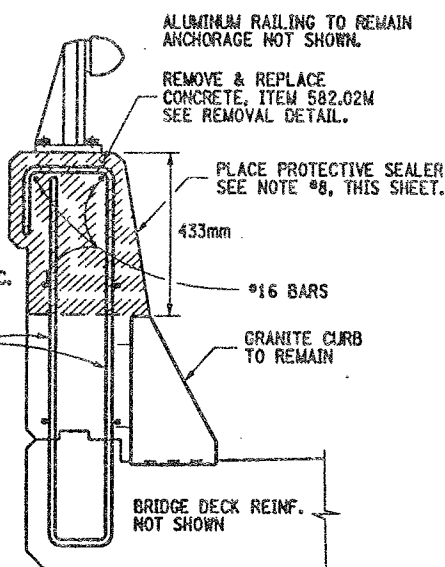
III REPAIR DETAILS  
FULL TOP & 200mm FACE

NOT TO SCALE



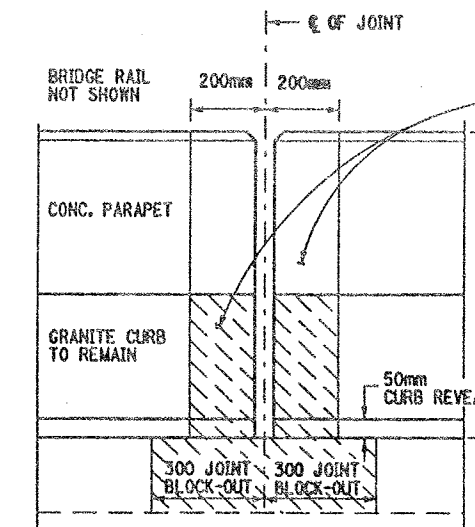
IV REPAIR DETAILS  
FRONT FACE

NOT TO SCALE



V REPAIR DETAILS  
FULL SECTION

NOT TO SCALE



FRONT FACE PARAPET CONCRETE DETAIL  
SHOWS TYPICAL CONC. REMOVAL AT JOINT

NOT TO SCALE

THE CONCRETE REMOVAL & REPLACEMENT AT THE JOINT BLOCK-OUT AREA SHALL BE PAID FOR UNDER THE JOINT REPLACEMENT ITEMS.  
REFER TO DRAWING NO. JD-53 FOR JOINT BLOCK-OUT DETAILS.

613mm HEIGHT OF PARAPET

50mm CURB REVEAL

300 JOINT BLOCK-OUT

ASBESTOS MATERIAL REMOVAL NOTES:

THE REMOVAL OF ALL ASBESTOS CONTAINING CAULK (ITEM 210.5433M) SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY PARAPET REPAIR WORK.

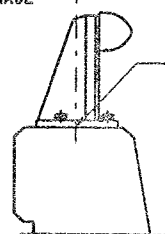
THIS REMOVAL OF THE ASBESTOS CAULK SHALL BE PERFORMED AT EACH BRIDGE RAIL BASE PLATE ON BOTH N.B. & S.B. BRIDGES. REMOVE ASBESTOS CAULKING AT ALL RAIL BASE PLATES BOTH BRIDGES.

AFTER COMPLETION OF THE PARAPET REPAIRS INSTALL A CAULKING COMPOUND AROUND THE BASE PLATES OF THE RAILING WHICH MEETS MATERIAL SPEC. 705-06 AND IS ACCEPTABLE TO THE ENGINEER. PAID UNDER ITEM 210.5433M.

REFER TO ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 FOR RAIL LAY-OUT DETAILS.

OF RAILING ANCHORAGE

BASE PLATES  
190mm X 168mm



TYPICAL BRIDGE RAIL DETAIL

NOT TO SCALE

REMOVE EXISTING GRAY ASBESTOS CAULKING COMPOUND AT THE ALUMINUM RAILING BASE PLATES. IT IS ASSUMED THAT THE CAULK COMPOUND IS SURROUNDING PERIMETER THE RAILING BASE PLATES. THIS PERIMETER REMOVAL OPERATION SHALL BE PERFORM AT EACH RAILING BASE PLATE ON BOTH STRUCTURES.

HOWEVER, SOME CAULK MATERIAL MAY BE FOUND UNDER THE RAILING BASE PLATES. THIS CAULKING COMPOUND UNDER THE BASE PLATES SHALL BE REMOVED ONLY AT LOCATIONS WHERE THE PARAPET CONCRETE REPAIRS WILL DISTURB THE MATERIAL (REMOVAL AS ENCOUNTERED).

ALL COSTS TO BE PAID UNDER ITEM 210.5433M. SEE ASBESTOS MATERIAL REMOVAL NOTES, THIS SHEET.

ITEMS USED:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE, REPLACE WITH CLASS "A" CONCRETE (C&M)
- ITEM 210.5433M - REMOVAL & DISPOSAL OF ASBESTOS CONTAINING CAULK (BY 12) (S.S.)
- ITEM 18559.1696M - PROTECTIVE SEALING OF STRUCTURAL CONCRETE (S&M)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 OVER CSX RR YARD

PARAPET REPAIR DETAILS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.  
305613AB.R1A 3 10/02 PW17-1



CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

PARAPET REPAIR TABLE (ITEM 582.05M)				
BIN 1093571				
SPAN	STATION TO STATION	RIGHT SIDE (EAST)	LEFT SIDE (WEST)	REMARKS
SPAN 1	6+626.288 TO 6+627.588	1.300m		① REPAIR PROCEDURE
	6+653.795 TO 6+654.495	.700m		② REPLACE FULL SECTION
SPAN 2	6+653.595 TO 6+654.495		.900m	② REPLACE FULL SECTION
	6+654.895 TO 6+655.505	.600m		② REPLACE FULL SECTION
SPAN 3	6+654.895 TO 6+655.505		.600m	② REPLACE FULL SECTION
	6+654.895 TO 6+664.895	10.000m		① REPAIR PROCEDURE
SPAN 4	6+669.995 TO 6+673.695	3.700m		① REPAIR PROCEDURE
	6+731.266 TO 6+735.466	4.200m		① REPAIR PROCEDURE
SPAN 5	6+753.266 TO 6+754.266	1.000m		② REPLACE FULL SECTION
	6+753.266 TO 6+754.266		1.000m	② REPLACE FULL SECTION
SPAN 6	6+754.666 TO 6+755.666	1.000m		② REPLACE FULL SECTION
	6+760.466 TO 6+769.866		9.400m	① REPAIR PROCEDURE
SPAN 7	6+760.666 TO 6+778.966	18.300m		① REPAIR PROCEDURE
	6+790.116 TO 6+791.616		1.500m	① REPAIR PROCEDURE
SPAN 8	6+789.316 TO 6+801.316	12.000m		① REPAIR PROCEDURE
	6+794.116 TO 6+803.616		9.500m	① REPAIR PROCEDURE
SPAN 9	6+813.616 TO 6+814.616	1.000m		② REPLACE FULL SECTION
	6+813.616 TO 6+814.616		1.000m	② REPLACE FULL SECTION
SPAN 10	6+815.016 TO 6+816.016	1.000m		② REPLACE FULL SECTION
	6+823.166 TO 6+871.166	48.000m		① REPAIR PROCEDURE
SPAN 11	6+870.566 TO 6+874.966	4.000m		② REPLACE FULL SECTION
	6+875.366 TO 6+876.366	1.000m		② REPLACE FULL SECTION
SPAN 12	6+875.366 TO 6+895.366		20.000m	② REPLACE FULL SECTION
	6+875.317 TO 6+935.317	60.000m		② REPLACE FULL SECTION
SPAN 13	6+908.317 TO 6+914.317		6.000m	② REPLACE FULL SECTION
	6+920.517 TO 6+928.517		8.000m	② REPLACE FULL SECTION
SPAN 14	6+923.317 TO 6+935.317		12.000m	② REPLACE FULL SECTION
	6+935.717 TO 6+947.217	11.500m		② REPLACE FULL SECTION
SPAN 15	6+949.917 TO 6+951.417	1.500m		② REPLACE FULL SECTION
	6+952.112 TO 6+967.112		15.000m	② REPLACE FULL SECTION
SPAN 16	6+967.012 TO 6+969.612	2.600m		② REPLACE FULL SECTION
	6+973.512 TO 7+010.907	37.400m		② REPLACE FULL SECTION
SPAN 17	6+981.907 TO 6+990.407		8.500m	② REPLACE FULL SECTION
	6+996.907 TO 7+010.907		14.000m	② REPLACE FULL SECTION
SPAN 18	7+011.307 TO 7+048.702		37.400m	② REPLACE FULL SECTION
	7+070.325 TO 7+074.325		4.000m	② REPLACE FULL SECTION
SPAN 19	7+091.825 TO 7+098.825	7.000m		② REPLACE FULL SECTION
	7+102.525 TO 7+106.025	3.500m		② REPLACE FULL SECTION
SPAN 20	7+100.325 TO 7+108.325		8.000m	② REPLACE FULL SECTION
	7+109.325 TO 7+110.825	1.500m		② REPLACE FULL SECTION
SPAN 21	7+112.725 TO 7+128.725		16.000m	② REPLACE FULL SECTION
	7+114.825 TO 7+117.825	3.000m		② REPLACE FULL SECTION
SPAN 22	7+129.125 TO 7+166.825		37.700m	② REPLACE FULL SECTION
	7+131.925 TO 7+137.925	6.000m		② REPLACE FULL SECTION
SPAN 23	7+158.025 TO 7+159.525	1.500m		② REPLACE FULL SECTION
	7+167.225 TO 7+204.925	37.700m		② REPLACE FULL SECTION
SPAN 24	7+172.225 TO 7+184.225		12.000m	② REPLACE FULL SECTION
	7+189.925 TO 7+204.925		15.000m	② REPLACE FULL SECTION
SPAN 25	7+205.325 TO 7+243.025	37.700m		② REPLACE FULL SECTION
	7+205.325 TO 7+243.025		37.700m	② REPLACE FULL SECTION
SPAN 26	7+243.425 TO 7+281.530		38.100m	② REPLACE FULL SECTION
	7+248.530 TO 7+254.330	5.800m		② REPLACE FULL SECTION
SPAN 27	7+257.430 TO 7+262.030	4.600m		② REPLACE FULL SECTION
	7+265.030 TO 7+266.530	1.500m		② REPLACE FULL SECTION
SPAN 28	7+268.230 TO 7+271.730	3.500m		② REPLACE FULL SECTION
				② REPLACE FULL SECTION

FULL SECTION REPLACEMENT AS DIRECTED BY ENGINEER TO INCLUDE IF NECESSITY, REPLACEMENT OR REPAIR OF THE GRANITE CURB. ALL COST TO BE INCLUDED IN BID PRICE FOR ITEM 582.05M.

(BACKFACE) INDICATES REPAIR AREA IS ON THE OUTSIDE OR BACKFACE OF PARAPET. CAUTION MUST BE TAKEN WHEN WORKING OVER R.R. TRACKS.

PARAPET REPAIR TABLE (ITEM 582.05M)				
BIN 1093572				
SPAN	STATION TO STATION	RIGHT SIDE (EAST)	LEFT SIDE (WEST)	REMARKS
SPAN 1	6+578.084 TO 6+582.084	4.000m		① REPAIR PROCEDURE
	6+592.589 TO 6+594.789	2.200m		① REPAIR PROCEDURE
SPAN 2	6+593.884 TO 6+600.884		7.000m	① REPAIR PROCEDURE (BACKFACE)
	6+597.489 TO 6+599.489	2.000m		① REPAIR PROCEDURE
SPAN 3	6+600.581 TO 6+608.297	7.700m		① REPAIR PROCEDURE
	6+602.697 TO 6+608.297		5.600m	① REPAIR PROCEDURE (BACKFACE)
SPAN 4	6+608.697 TO 6+620.197		11.500m	① REPAIR PROCEDURE (BACKFACE)
	6+639.497 TO 6+641.497		2.000m	① REPAIR PROCEDURE (BACKFACE)
SPAN 5	6+646.997 TO 6+653.497		6.500m	① REPAIR PROCEDURE (BACKFACE)
	6+662.597 TO 6+664.597		2.000m	② REPLACE FULL SECTION
SPAN 6	6+676.097 TO 6+684.097	8.000m		① REPAIR PROCEDURE
	6+697.097 TO 6+698.097	1.000m		① REPAIR PROCEDURE
SPAN 7	6+707.070 TO 6+708.070	1.000m		② REPLACE FULL SECTION
	6+707.070 TO 6+708.070		1.000m	② REPLACE FULL SECTION
SPAN 8	6+708.470 TO 6+709.470	1.000m		② REPLACE FULL SECTION
	6+715.570 TO 6+757.070	41.500m		① REPAIR PROCEDURE
SPAN 9	6+719.070 TO 6+728.070		9.000m	① REPAIR PROCEDURE
	6+750.420 TO 6+768.420		18.000m	① REPAIR PROCEDURE
SPAN 10	6+767.420 TO 6+768.420	1.000m		② REPLACE FULL SECTION
	6+768.820 TO 6+770.320	1.500m		② REPLACE FULL SECTION
SPAN 11	6+773.120 TO 6+786.120	13.000m		① REPAIR PROCEDURE
	6+778.920 TO 6+783.220		4.300m	① REPAIR PROCEDURE
SPAN 12	6+799.620 TO 6+802.120		2.500m	① REPAIR PROCEDURE
	6+804.620 TO 6+815.620	11.000m		① REPAIR PROCEDURE
SPAN 13	6+826.771 TO 6+828.771		2.000m	② REPLACE FULL SECTION
	6+829.171 TO 6+830.171	1.000m		② REPLACE FULL SECTION
SPAN 14	6+829.171 TO 6+830.171		1.000m	② REPLACE FULL SECTION
	6+830.171 TO 6+888.771		58.600m	① REPAIR PROCEDURE
SPAN 15	6+846.971 TO 6+849.971	3.000m		① REPAIR PROCEDURE
	6+855.621 TO 6+889.121	33.500m		① REPAIR PROCEDURE
SPAN 16	6+889.126 TO 6+926.916	37.400m		① REPAIR PROCEDURE
	6+892.221 TO 6+897.521		5.300m	① REPAIR PROCEDURE
SPAN 17	6+903.321 TO 6+907.621		4.300m	① REPAIR PROCEDURE
	6+909.721 TO 6+911.721		2.000m	① REPAIR PROCEDURE
SPAN 18	6+916.916 TO 6+926.916		10.000m	① REPAIR PROCEDURE
	6+927.316 TO 6+964.712	37.400m		① REPAIR PROCEDURE
SPAN 19	6+965.112 TO 6+996.112	31.000m		① REPAIR PROCEDURE
	7+014.602 TO 7+023.602		9.000m	① REPAIR PROCEDURE
SPAN 20	7+020.302 TO 7+040.302	20.000m		① REPAIR PROCEDURE
	7+044.302 TO 7+046.302		2.000m	① REPAIR PROCEDURE
SPAN 21	7+060.397 TO 7+067.697	7.300m		① REPAIR PROCEDURE
	7+099.892 TO 7+101.892	2.000m		① REPAIR PROCEDURE
SPAN 22	7+119.492 TO 7+125.492		6.000m	① REPAIR PROCEDURE
	7+168.283 TO 7+186.283		18.000m	① REPAIR PROCEDURE
SPAN 23	7+168.983 TO 7+191.483	22.500m		① REPAIR PROCEDURE
	7+171.093 TO 7+191.483	20.400m		① REPAIR PROCEDURE
SPAN 24	7+165.783 TO 7+179.283		13.500m	① REPAIR PROCEDURE
	7+197.883 TO 7+199.883		2.000m	① REPAIR PROCEDURE
SPAN 25	7+198.283 TO 7+229.683	31.400m		① REPAIR PROCEDURE
				① REPAIR PROCEDURE

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	331	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

# GENERAL NOTES:

WORK ADJACENT TO JOINT BLOCK-OUT (200mm) SHALL BE INCLUDED IN THE BRIDGE JOINT REPLACEMENT ITEMS. SEE DRAWING NO. JD-53 FOR JOINT BLOCK-OUT REMOVAL DETAILS.

SOME REPAIRS ARE ON THE BACK FACE OF THE PARAPETS. SOME OF THIS WORK MAY BE OVER THE RAIL ROAD TRACKS.

REFER TO DRAWING NO. PW17-1 FOR CONCRETE REMOVAL DETAILS AND NOTES.

STATIONING AND DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR AND ENGINEER.

REFER TO RECONSTRUCTION NOTES ON DRAWING NO. GN-1.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
TABLE OF PARAPET REPAIRS

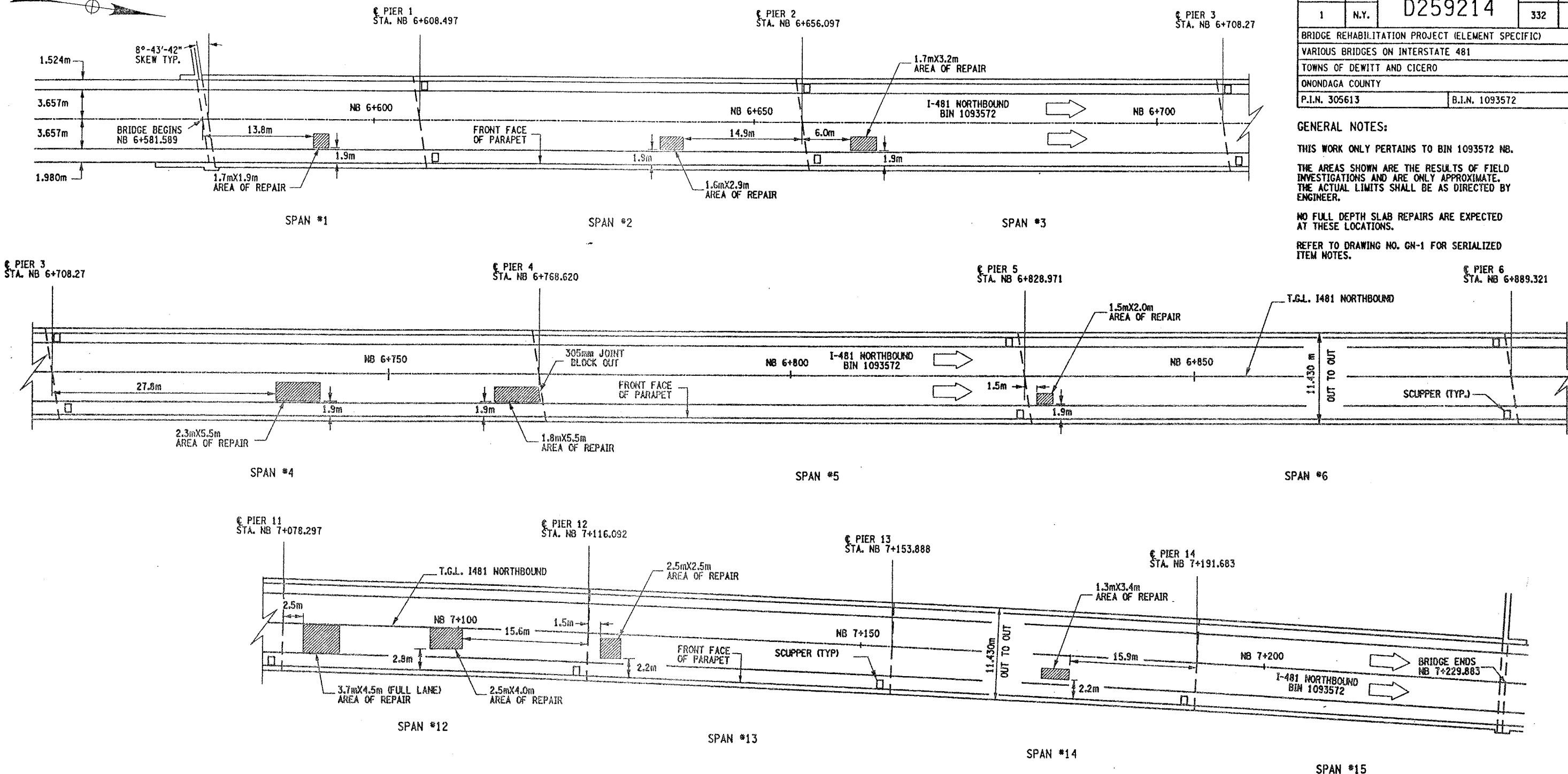


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	PW17-2



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DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



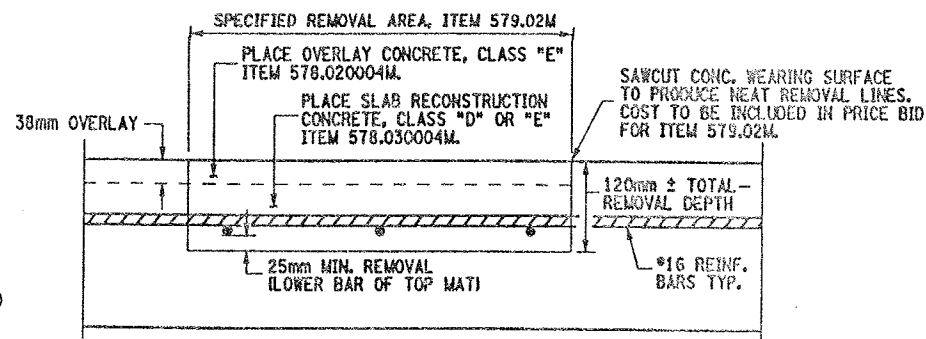
#### REMOVAL NOTES:

ORIGINAL BRIDGE DECK 203mm MONOLITHIC SLAB.  
A 38mm CONC. OVERLAY HAS BEEN ADDED.

THESE LOCATIONS ARE CURRENTLY FILLED WITH  
ASPHALT (BLACKTOP). DEPTH OF ASPHALT IS  
UNKNOWN, ESTIMATED AT 38mm. THE REMOVAL  
OF THE ASPHALT AND CONCRETE TO LIMITS SHOWN  
TO BE PAID UNDER ITEM 579.02M.

REMOVE CONCRETE TO LIMITS SHOWN AND TO SOUND  
CONCRETE, AS ORDER BY ENGINEER.

ALL AREAS THAT ARE REPAIRED SHALL ALSO RECEIVE  
ITEM 558.01 - TRANSVERSE SAWCUT GROOVING AND  
ITEM 18559.1896M - PROTECTIVE SEALING.



CROSS SECTION VIEW THROUGH REPAIR LOCATION

NOT TO SCALE

#### PLAN VIEW OF SPOT DECK REPAIRS

NOT TO SCALE

#### ITEMS USED:

- ITEM 558.01M - TRANSVERSE SAWCUT GROOVING (SM)
- ITEM 18559.1896M - PROTECTIVE SEALING FOR STRUCT. CONC. (SM)
- ITEM 578.020004M - OVERLAY CONCRETE, CLASS "E" (SM)
- ITEM 578.030004M - SLAB RECONSTRUCTION CONCRETE, CLASS "D" OR "E" (SM)
- ITEM 579.02M - REINFORCING BAR EXPOSURE (SM)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	332	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093572

#### GENERAL NOTES:

THIS WORK ONLY PERTAINS TO BIN 1093572 NB.

THE AREAS SHOWN ARE THE RESULTS OF FIELD  
INVESTIGATIONS AND ARE ONLY APPROXIMATE.  
THE ACTUAL LIMITS SHALL BE AS DIRECTED BY  
ENGINEER.

NO FULL DEPTH SLAB REPAIRS ARE EXPECTED  
AT THESE LOCATIONS.

REFER TO DRAWING NO. CN-1 FOR SERIALIZED  
ITEM NOTES.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
BRIDGE DECK REPAIRS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AB.R1A	REGION 3	DATE 10/02	DRAWING NO. DR17-1
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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	325	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093572		

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - FOR SECTION AA-AA SEE DWG. PR17-7N.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

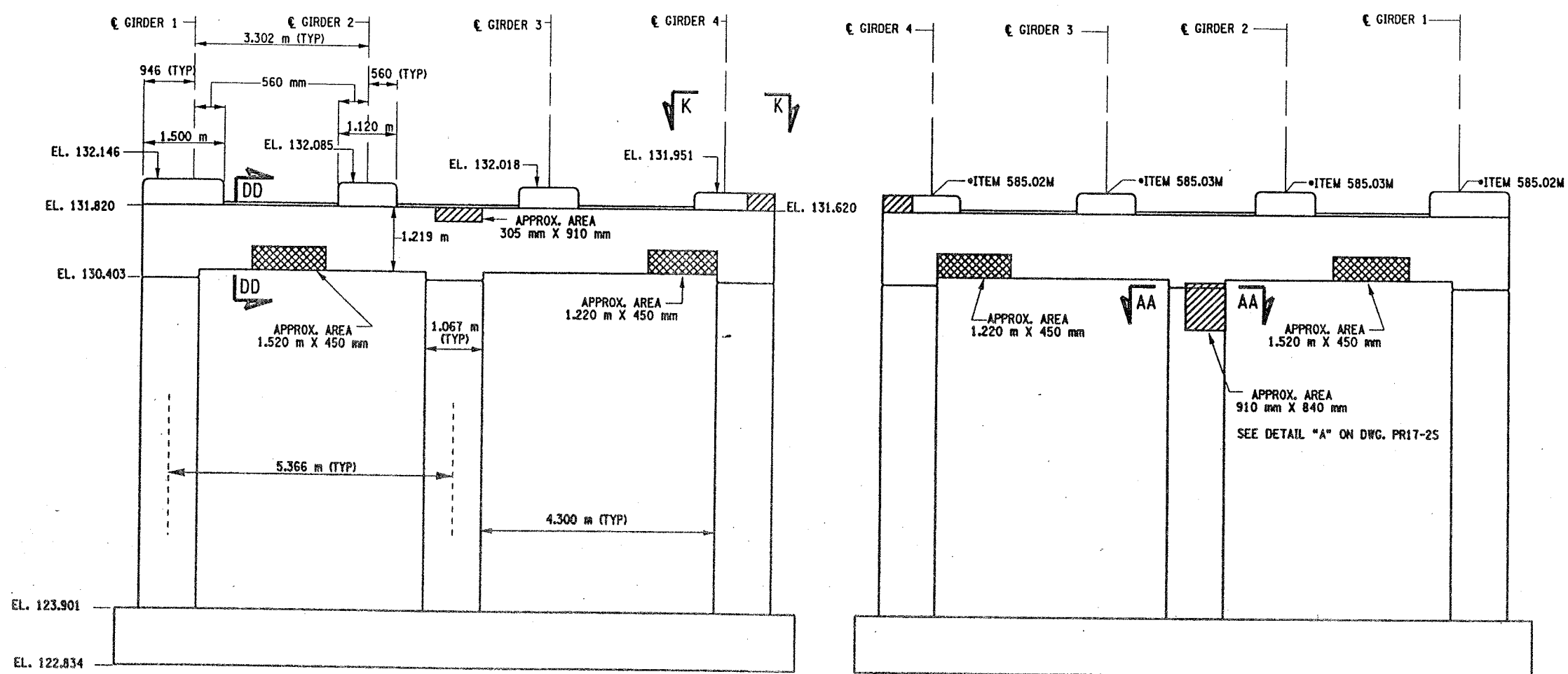
\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

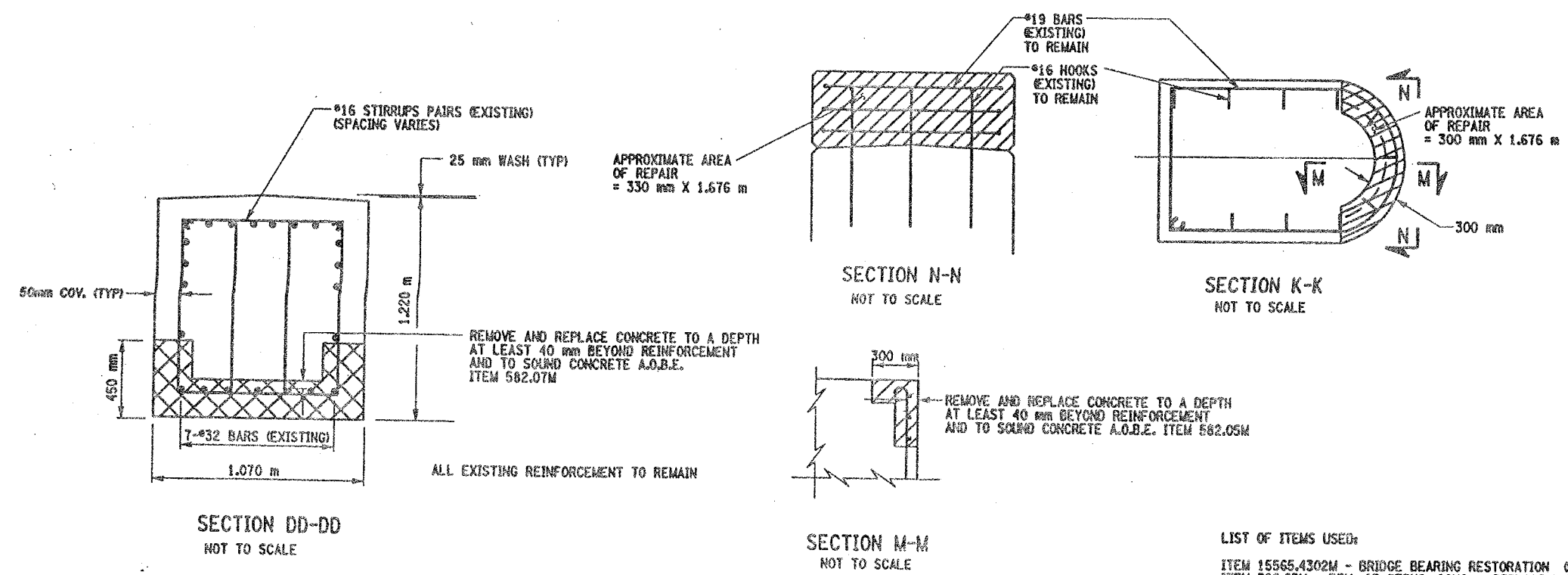
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 10			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P10	REGION 3	DATE 10/02	DRAWING NO. PR17-10N



PIER 10 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

PIER 10 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50

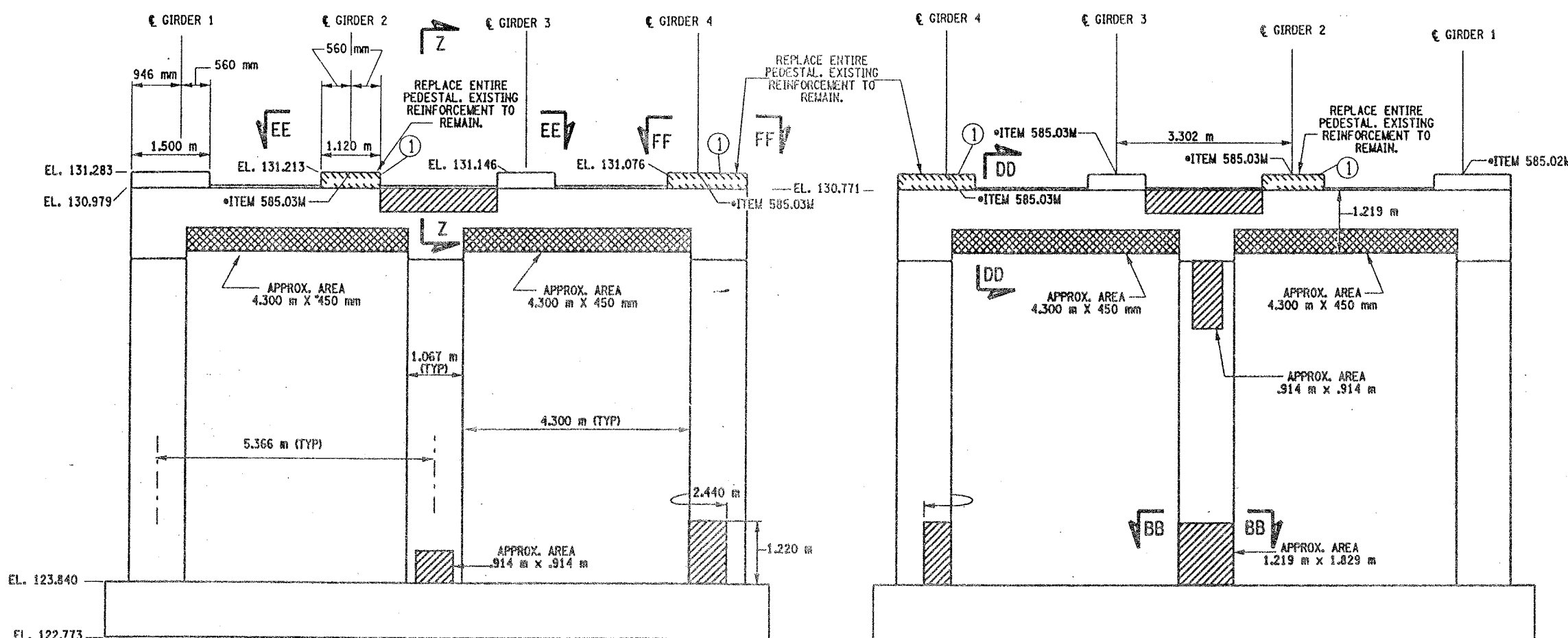


- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (CA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (CA)



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DRAFTED BY  
ESTIMATED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

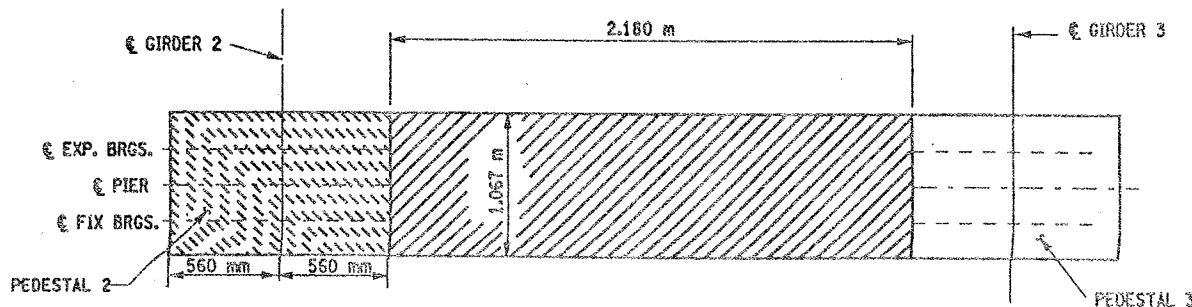
FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	326	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	



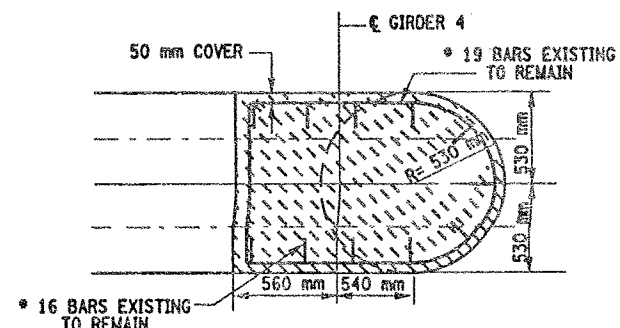
PIER 11 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

PIER 11- BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50

① INDICATES CONCRETE PLACEMENT NUMBER



SECTION EE-EE  
NOT TO SCALE



SECTION FF-FF  
NOT TO SCALE

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	0.80	555.0105M

LIST OF ITEMS USED

- ITEM 555.0105M - CONCRETE FOR STRUCTURES, CLASS A (CM)
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
- ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
- ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
- ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. SEE DWG. PR17-10N FOR SECTION DD-DD.
9. SEE DWG. PR17-12S FOR SECTION BB-BB.
10. SEE DWG. PR17-7N FOR SECTION Z-Z.
11. PEDESTALS 2 AND 4 SHALL BE REPLACED TO EXISTING DIMENSIONS, ITEM 555.0105 M
12. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
13. FOR JACKING NOTES SEE DWG. PR17-1S.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)
- ITEM 580.01 M - REMOVAL OF STRUCTURAL CONCRETE. (CM) AND ITEM 555.0105 M - CONCRETE FOR STRUCTURES CLASS A. (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS	
SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 11	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P11	REGION 3
DATE 10/02	DRAWING NO. PR17-11N



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DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
		D259214	327	432
1	N.Y.			
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

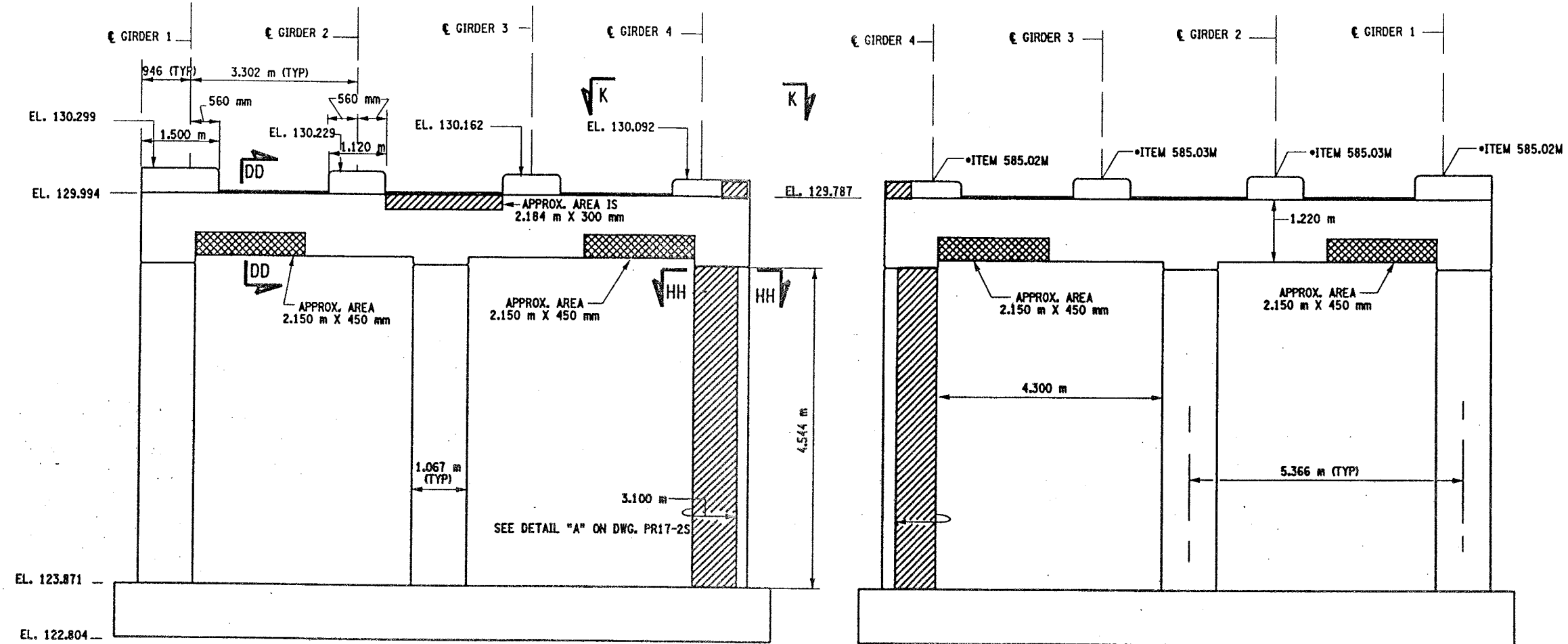
- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG PR17-10N FOR SECTION DO-DD.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED			
<u>AS BUILT REVISIONS</u>			
<u>SIGNATURE</u>		<u>DATE</u>	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 12			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P12	REGION 3	DATE 10/02	DRAWING NO. PR17-12N

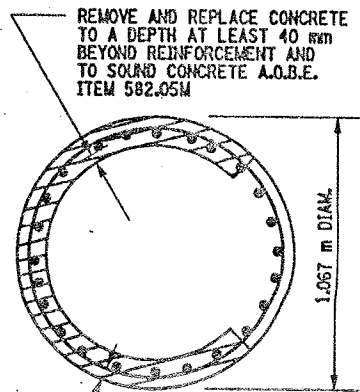


PIER 12 - FRONT FACE (LOOKING NORTH)

BIN 1093572  
SCALE: 1 TO 50

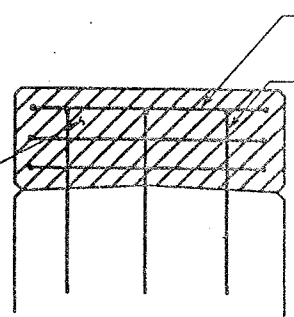
PIER 12 - BACK FACE (LOOKING SOUTH)

BIN 1093572  
SCALE: 1 TO 50

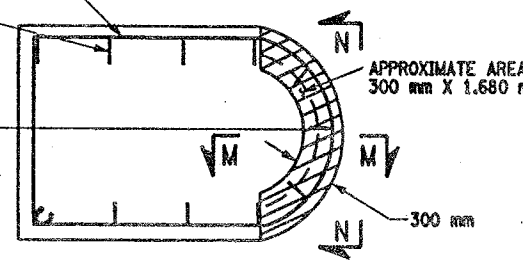


SECTION HH-HH

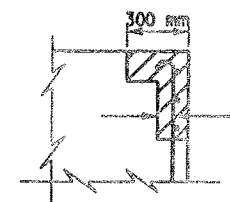
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SECTION N-N  
NOT TO SCALE



SECTION K-K  
NOT TO SCALE



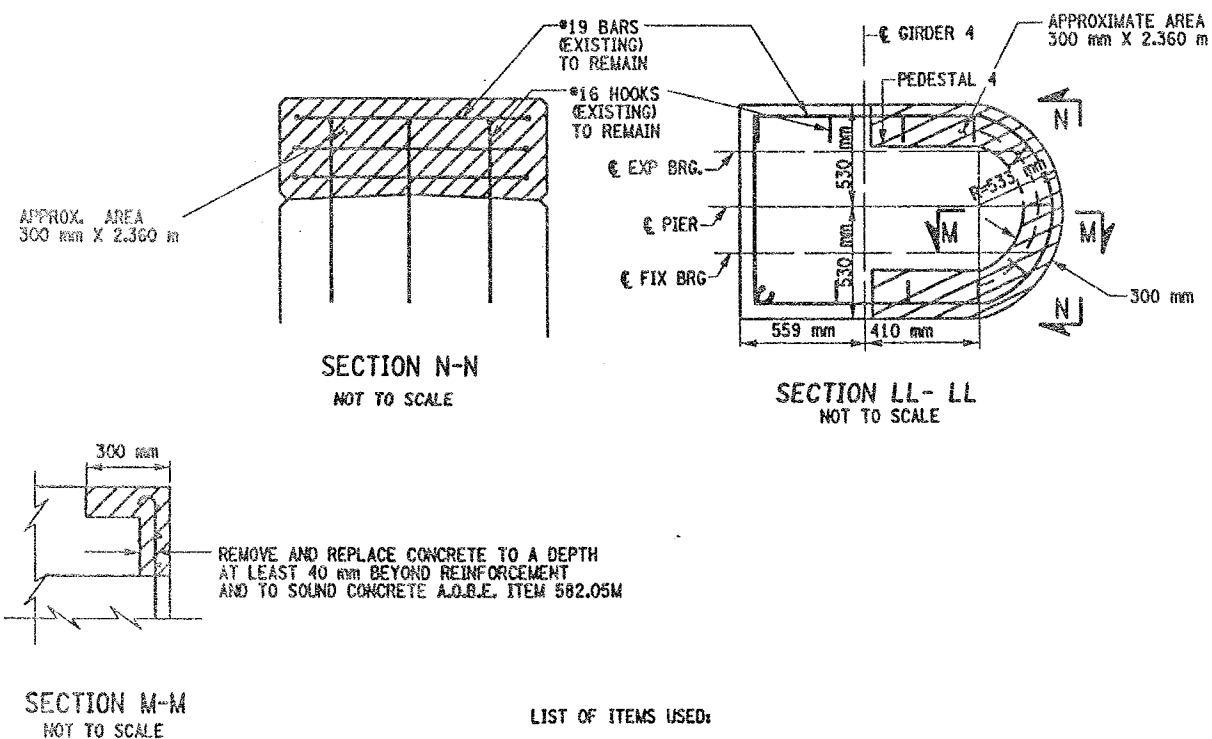
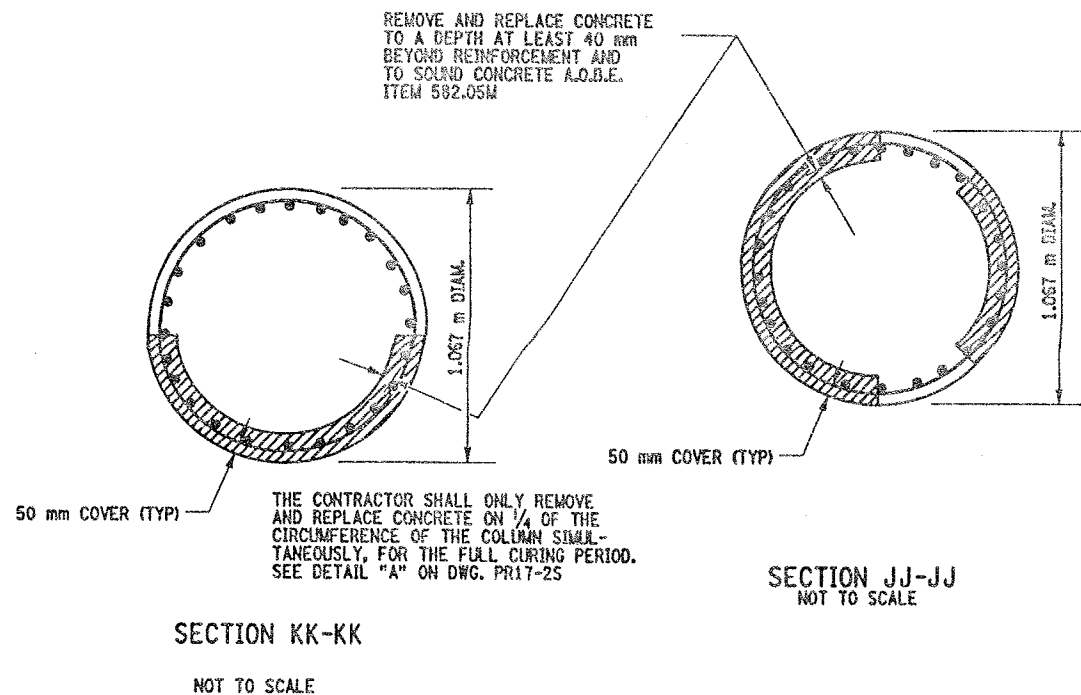
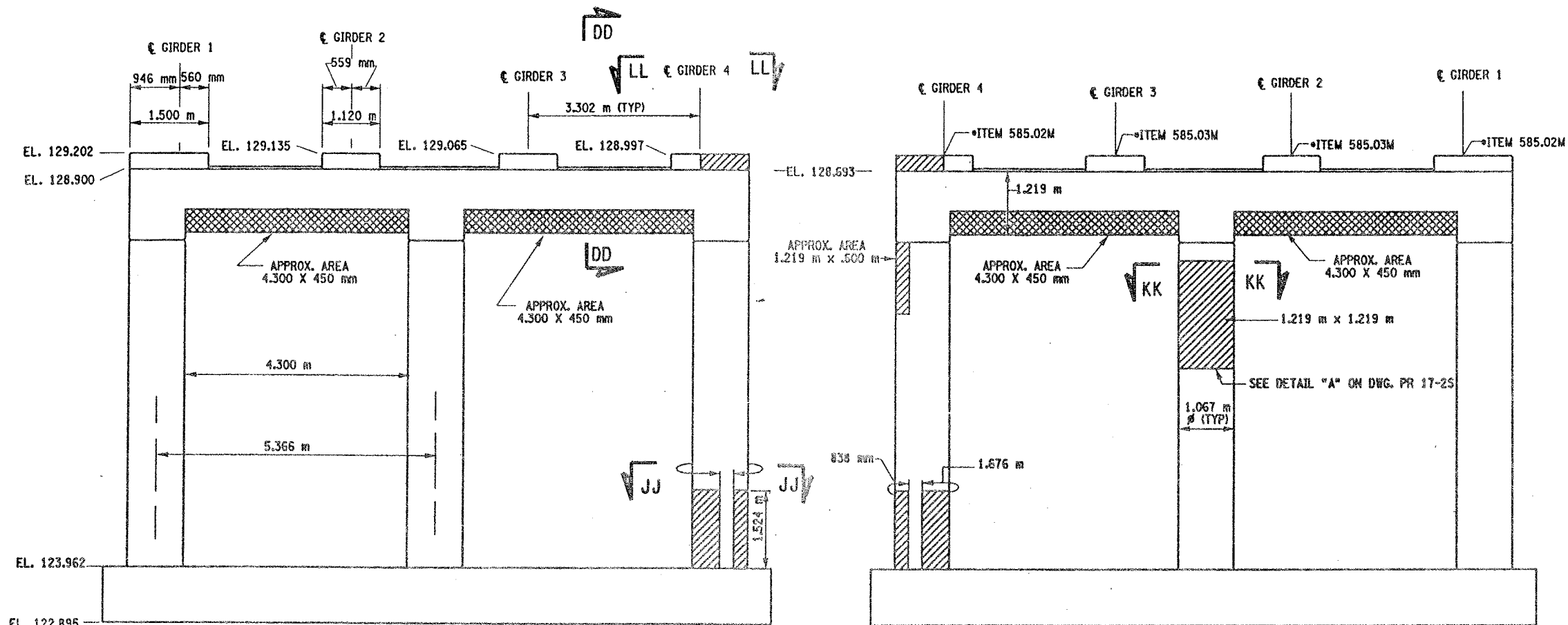
SECTION M-M  
NOT TO SCALE

LIST OF ITEMS USED:

- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
- ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
- ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



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DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	328	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)

VARIOUS BRIDGES ON INTERSTATE 481

TOWNS OF DEWITT AND CICERO

ONONDAGA COUNTY

P.I.N. 305613

B.I.N. 1093572

NOTES:

- ALL REINFORCEMENT TO REMAIN.
- RESTORE TO ORIGINAL DIMENSIONS.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
- ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
- REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
- PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
- SEE DWG. PR 17-10N FOR SECTION DD-DD.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
- FOR JACKING NOTES SEE DWG PR17-15.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481 NB  
OVER  
CSX RAILROAD YARD  
PIER 13

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME  
305613AE.P13

REGION  
3

DATE  
10/02

DRAWING NO.  
PR17-13N



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CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	329	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
ONONDAGA COUNTY	
P.I.N. 305613	B.I.N. 1093572

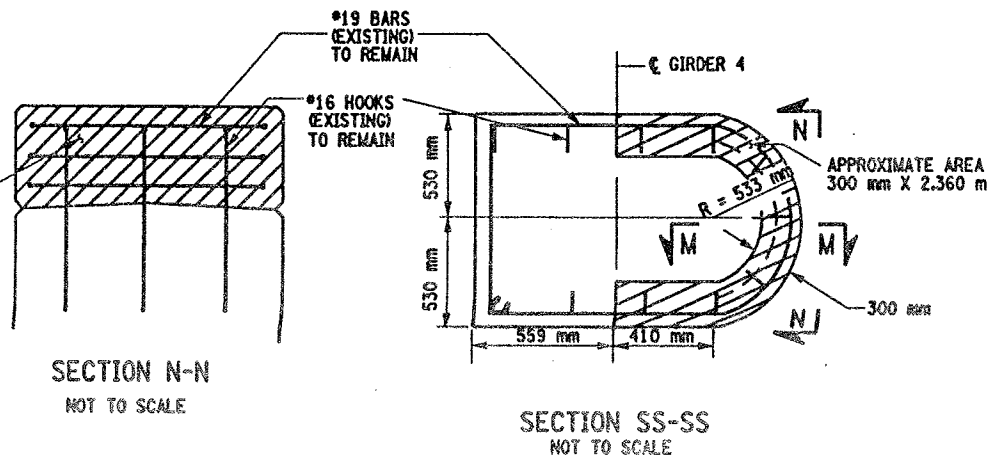
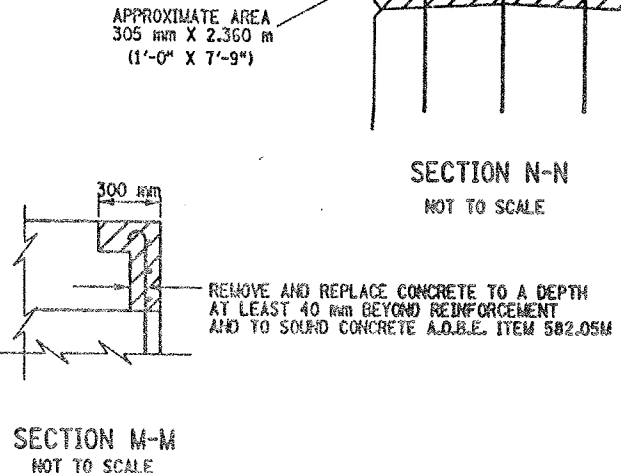
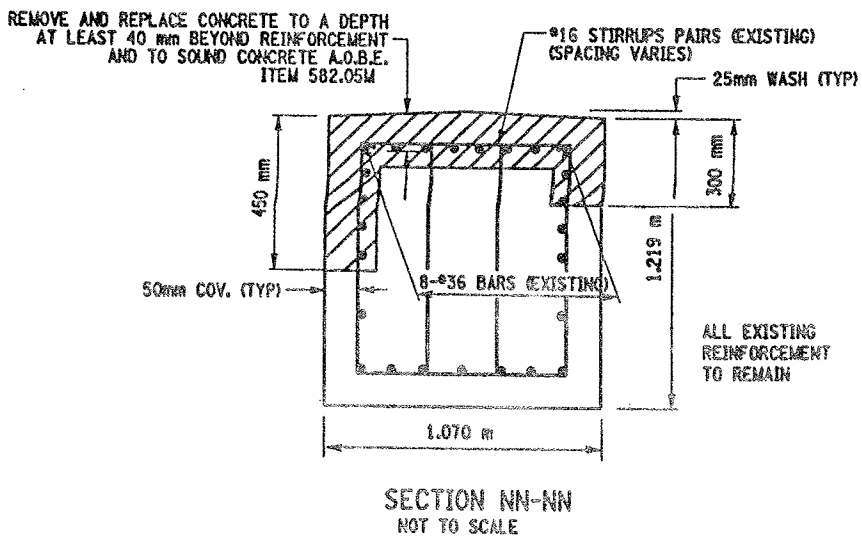
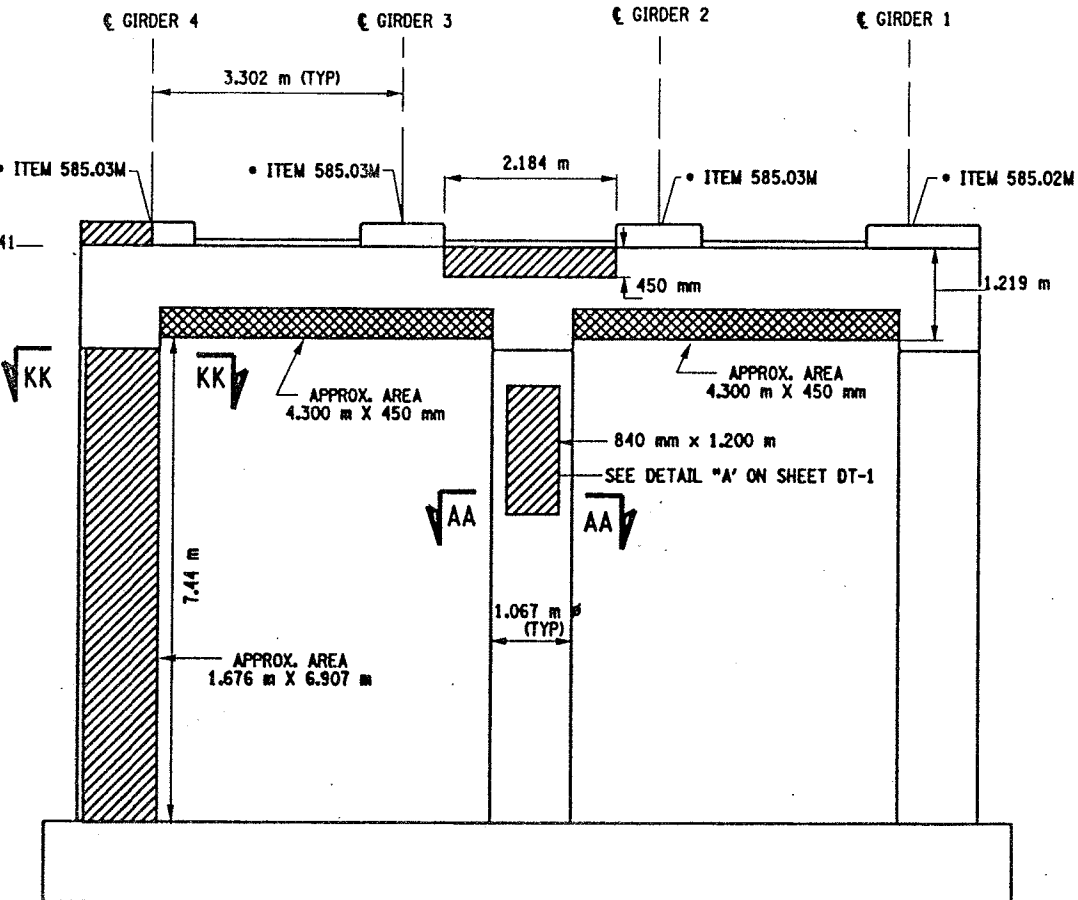
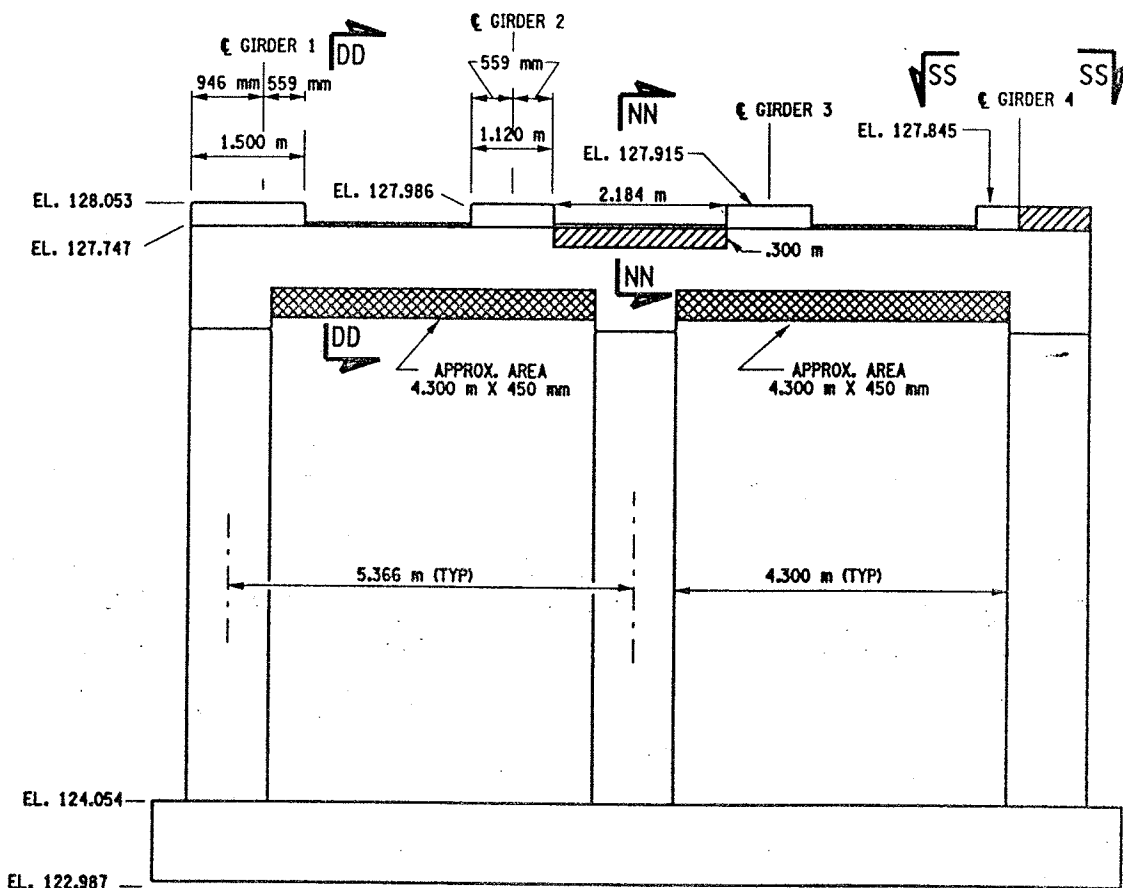
- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-10N FOR SECTION DD-DD.
  - SEE DWG. PR17-7N FOR SECTION AA-AA.
  - SEE DWG. PR17-13N FOR SECTION KK-KK.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

- PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED	
AS BUILT REVISIONS	
SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 14	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P14	REGION 3
DATE 10/02	DRAWING NO. PR17-14N



- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)







CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

PARAPET REPAIR TABLE (ITEM 582.05M)			
BIN 1093571			
STATION TO STATION	RIGHT SIDE (EAST)	LEFT SIDE (WEST)	REMARKS
SPAN 1 6+626.288 TO 6+627.588	1.300m		① REPAIR PROCEDURE
6+653.795 TO 6+654.495	.700m		② REPLACE FULL SECTION
6+653.595 TO 6+654.495		.900m	② REPLACE FULL SECTION
SPAN 2 6+654.895 TO 6+655.505	.600m		② REPLACE FULL SECTION
6+654.895 TO 6+655.505		.600m	② REPLACE FULL SECTION
6+654.895 TO 6+664.895	10.000m		① REPAIR PROCEDURE
6+669.995 TO 6+673.695	3.700m		① REPAIR PROCEDURE
SPAN 3 6+731.266 TO 6+735.466	4.200m		① REPAIR PROCEDURE
6+753.266 TO 6+754.266	1.000m		② REPLACE FULL SECTION
6+753.266 TO 6+754.266		1.000m	② REPLACE FULL SECTION
SPAN 4 6+754.666 TO 6+755.666	1.000m		② REPLACE FULL SECTION
6+760.466 TO 6+769.866		9.400m	① REPAIR PROCEDURE
6+760.666 TO 6+778.966	18.300m		① REPAIR PROCEDURE
6+790.116 TO 6+791.616		1.500m	① REPAIR PROCEDURE
6+789.316 TO 6+801.316	12.000m		① REPAIR PROCEDURE
6+794.116 TO 6+803.616		9.500m	② REPLACE FULL SECTION
6+813.616 TO 6+814.616	1.000m		② REPLACE FULL SECTION
6+813.616 TO 6+814.616		1.000m	② REPLACE FULL SECTION
SPAN 5 6+815.016 TO 6+816.016	1.000m		② REPLACE FULL SECTION
6+823.166 TO 6+871.166	48.000m		① REPAIR PROCEDURE
6+870.566 TO 6+874.966	4.000m		② REPLACE FULL SECTION
SPAN 6 6+875.366 TO 6+876.366	1.000m		② REPLACE FULL SECTION
6+875.366 TO 6+895.366		20.000m	② REPLACE FULL SECTION
6+875.317 TO 6+935.317	60.000m		② REPLACE FULL SECTION
6+908.317 TO 6+914.317		6.000m	② REPLACE FULL SECTION
6+920.517 TO 6+928.517		8.000m	② REPLACE FULL SECTION
6+923.317 TO 6+935.317		12.000m	② REPLACE FULL SECTION
SPAN 7 6+935.717 TO 6+947.217	11.500m		② REPLACE FULL SECTION
6+949.917 TO 6+951.417	1.500m		① REPAIR PROCEDURE
6+952.112 TO 6+967.112		15.000m	① REPAIR PROCEDURE
6+967.012 TO 6+969.612	2.600m		② REPLACE FULL SECTION
SPAN 8 6+973.512 TO 7+010.907	37.400m		① REPAIR PROCEDURE
6+981.907 TO 6+990.407		8.500m	② REPLACE FULL SECTION
6+996.907 TO 7+010.907		14.000m	② REPLACE FULL SECTION
SPAN 9 7+011.307 TO 7+048.702		37.400m	② REPLACE FULL SECTION
SPAN 10 7+070.325 TO 7+074.325		4.000m	② REPLACE FULL SECTION
SPAN 11 7+091.825 TO 7+098.825	7.000m		① REPAIR PROCEDURE
7+102.525 TO 7+106.025	3.500m		① REPAIR PROCEDURE
7+100.325 TO 7+108.325		8.000m	① REPAIR PROCEDURE
7+109.325 TO 7+110.825	1.500m		① REPAIR PROCEDURE
7+112.725 TO 7+128.725		16.000m	① REPAIR PROCEDURE
7+114.825 TO 7+117.825	3.000m		① REPAIR PROCEDURE
SPAN 12 7+129.125 TO 7+166.825		37.700m	① REPAIR PROCEDURE
7+131.925 TO 7+137.925	6.000m		② REPLACE FULL SECTION
7+158.025 TO 7+159.525	1.500m		② REPLACE FULL SECTION
SPAN 13 7+167.225 TO 7+204.925	37.700m		① REPAIR PROCEDURE
7+172.225 TO 7+184.225		12.000m	① REPAIR PROCEDURE
7+189.925 TO 7+204.925		15.000m	① REPAIR PROCEDURE
SPAN 14 7+205.325 TO 7+243.025	37.700m		① REPAIR PROCEDURE
7+205.325 TO 7+243.025		37.700m	① REPAIR PROCEDURE
SPAN 15 7+243.425 TO 7+281.530		38.100m	① REPAIR PROCEDURE
7+248.530 TO 7+254.330	5.800m		② REPLACE FULL SECTION
7+257.430 TO 7+262.030	4.600m		① REPAIR PROCEDURE
7+265.030 TO 7+266.530	1.500m		① REPAIR PROCEDURE
7+268.230 TO 7+271.730	3.500m		① REPAIR PROCEDURE

FULL SECTION REPLACEMENT AS DIRECTED BY ENGINEER TO INCLUDE IF NECESSITY, REPLACEMENT OR REPAIR OF THE GRANITE CURB. ALL COST TO BE INCLUDED IN BID PRICE FOR ITEM 582.05M.

(BACKFACE) INDICATES REPAIR AREA IS ON THE OUTSIDE OR BACKFACE OF PARAPET. CAUTION MUST BE TAKEN WHEN WORKING OVER R.R. TRACKS.

PARAPET REPAIR TABLE (ITEM 582.05M)			
BIN 1093572			
STATION TO STATION	RIGHT SIDE (EAST)	LEFT SIDE (WEST)	REMARKS
SPAN 1 6+578.084 TO 6+582.084	4.000m		① REPAIR PROCEDURE
6+592.589 TO 6+594.789	2.200m		① REPAIR PROCEDURE
6+593.884 TO 6+600.884		7.000m	① REPAIR PROCEDURE (BACKFACE)
6+597.489 TO 6+599.489	2.000m		① REPAIR PROCEDURE
6+600.581 TO 6+608.297	7.700m		① REPAIR PROCEDURE
6+602.697 TO 6+608.297		5.600m	① REPAIR PROCEDURE (BACKFACE)
SPAN 2 6+608.697 TO 6+620.197		11.500m	① REPAIR PROCEDURE (BACKFACE)
6+639.497 TO 6+641.497		2.000m	① REPAIR PROCEDURE (BACKFACE)
6+646.997 TO 6+653.497		6.500m	① REPAIR PROCEDURE (BACKFACE)
SPAN 3 6+662.597 TO 6+664.597		2.000m	② REPLACE FULL SECTION
6+676.097 TO 6+684.097	8.000m		① REPAIR PROCEDURE
6+697.097 TO 6+698.097	1.000m		① REPAIR PROCEDURE
6+707.070 TO 6+708.070	1.000m		② REPLACE FULL SECTION
6+707.070 TO 6+708.070		1.000m	② REPLACE FULL SECTION
SPAN 4 6+708.470 TO 6+709.470	1.000m		② REPLACE FULL SECTION
6+715.570 TO 6+757.070	41.500m		① REPAIR PROCEDURE
6+719.070 TO 6+728.070		9.000m	① REPAIR PROCEDURE
6+750.420 TO 6+768.420		18.000m	② REPLACE FULL SECTION
6+767.420 TO 6+768.420		1.000m	② REPLACE FULL SECTION
SPAN 5 6+768.820 TO 6+770.320	1.500m		② REPLACE FULL SECTION
6+773.120 TO 6+786.120	13.000m		① REPAIR PROCEDURE
6+778.920 TO 6+783.220		4.300m	① REPAIR PROCEDURE
6+799.620 TO 6+802.120		2.500m	① REPAIR PROCEDURE
6+804.620 TO 6+815.620	11.000m		① REPAIR PROCEDURE
6+826.771 TO 6+828.771		2.000m	② REPLACE FULL SECTION
SPAN 6 6+829.171 TO 6+830.171	1.000m		② REPLACE FULL SECTION
6+829.171 TO 6+830.171		1.000m	② REPLACE FULL SECTION
6+830.171 TO 6+888.771		58.600m	② REPLACE FULL SECTION
6+846.971 TO 6+849.971	3.000m		① REPAIR PROCEDURE
6+855.621 TO 6+889.121	33.500m		① REPAIR PROCEDURE
SPAN 7 6+889.126 TO 6+926.916	37.400m		① REPAIR PROCEDURE
6+892.221 TO 6+897.521		5.300m	① REPAIR PROCEDURE
6+903.321 TO 6+907.621		4.300m	① REPAIR PROCEDURE
6+909.721 TO 6+911.721		2.000m	① REPAIR PROCEDURE
6+916.916 TO 6+926.916		10.000m	② REPLACE FULL SECTION
SPAN 8 6+927.316 TO 6+964.712	37.400m		② REPLACE FULL SECTION
SPAN 9 6+965.112 TO 6+996.112	31.000m		① REPAIR PROCEDURE
SPAN 10 7+014.602 TO 7+023.602		9.000m	② REPLACE FULL SECTION
7+020.302 TO 7+040.302	20.000m		② REPLACE FULL SECTION
SPAN 11 7+044.302 TO 7+046.302		2.000m	① REPAIR PROCEDURE
7+060.397 TO 7+067.697	7.300m		① REPAIR PROCEDURE
SPAN 12 7+099.892 TO 7+101.892	2.000m		① REPAIR PROCEDURE
SPAN 13 7+119.492 TO 7+125.492		6.000m	① REPAIR PROCEDURE
7+168.283 TO 7+186.283		18.000m	① REPAIR PROCEDURE
7+168.983 TO 7+191.483	22.500m		① REPAIR PROCEDURE
SPAN 14 7+171.093 TO 7+191.483	20.400m		① REPAIR PROCEDURE
7+165.783 TO 7+179.283		13.500m	① REPAIR PROCEDURE
SPAN 15 7+197.883 TO 7+199.883		2.000m	① REPAIR PROCEDURE
7+198.283 TO 7+229.683	31.400m		① REPAIR PROCEDURE

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	331	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

# GENERAL NOTES:

WORK ADJACENT TO JOINT BLOCK-OUT (200mm) SHALL BE INCLUDED IN THE BRIDGE JOINT REPLACEMENT ITEMS. SEE DRAWING NO. JD-53 FOR JOINT BLOCK-OUT REMOVAL DETAILS.

SOME REPAIRS ARE ON THE BACK FACE OF THE PARAPETS. SOME OF THIS WORK MAY BE OVER THE RAIL ROAD TRACKS.

REFER TO DRAWING NO. PW17-1 FOR CONCRETE REMOVAL DETAILS AND NOTES.

STATIONING AND DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR AND ENGINEER.

REFER TO RECONSTRUCTION NOTES ON DRAWING NO. GN-1.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
TABLE OF PARAPET REPAIRS

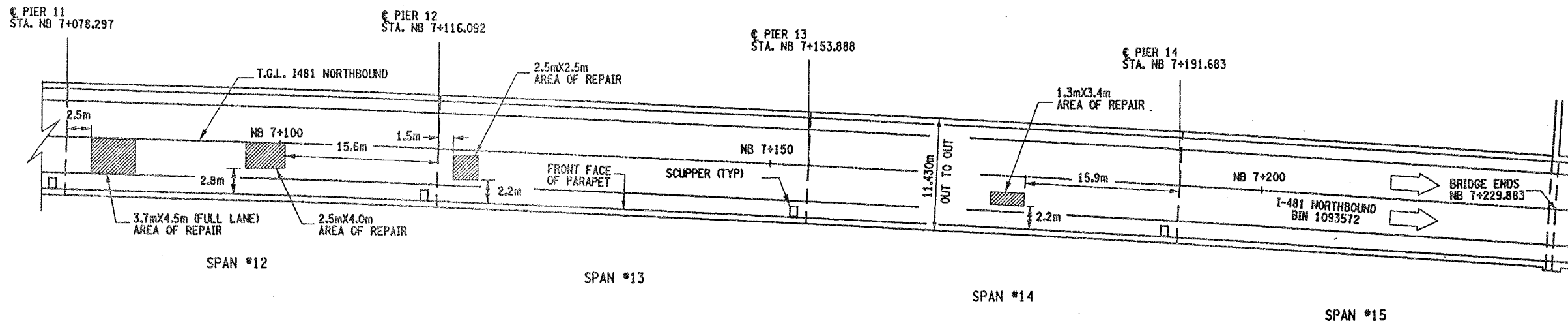
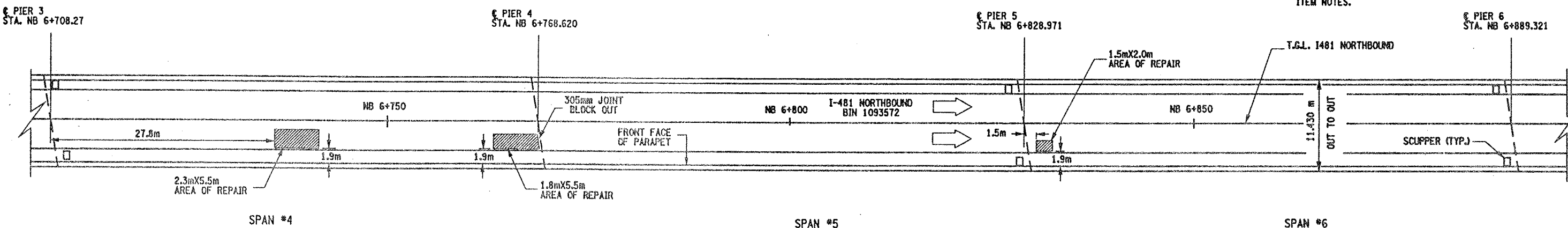
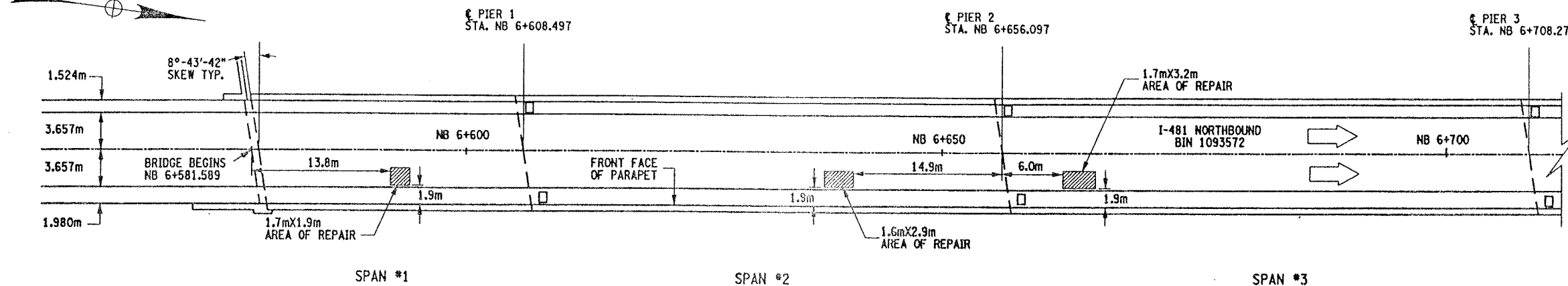


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	PW17-2



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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



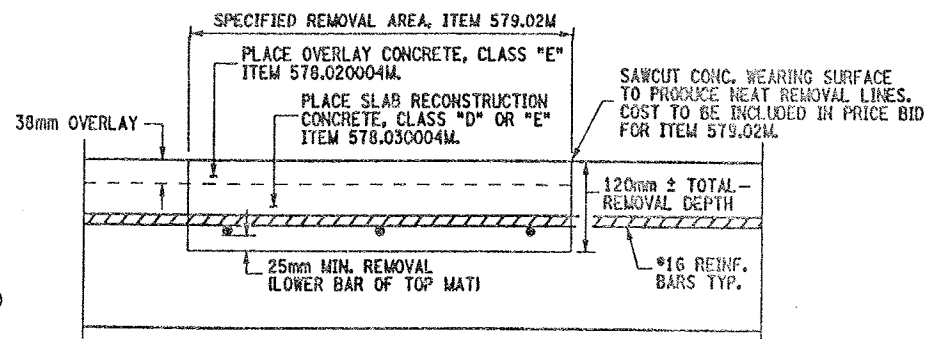
#### REMOVAL NOTES:

ORIGINAL BRIDGE DECK 203mm MONOLITHIC SLAB.  
A 38mm CONC. OVERLAY HAS BEEN ADDED.

THESE LOCATIONS ARE CURRENTLY FILLED WITH  
ASPHALT (BLACKTOP). DEPTH OF ASPHALT IS  
UNKNOWN, ESTIMATED AT 38mm. THE REMOVAL  
OF THE ASPHALT AND CONCRETE TO LIMITS SHOWN  
TO BE PAID UNDER ITEM 579.02M.

REMOVE CONCRETE TO LIMITS SHOWN AND TO SOUND  
CONCRETE, AS ORDER BY ENGINEER.

ALL AREAS THAT ARE REPAIRED SHALL ALSO RECEIVE  
ITEM 558.01 - TRANSVERSE SAWCUT GROOVING AND  
ITEM 18559.1896M - PROTECTIVE SEALING.



CROSS SECTION VIEW THROUGH REPAIR LOCATION

NOT TO SCALE

#### PLAN VIEW OF SPOT DECK REPAIRS

NOT TO SCALE

#### ITEMS USED:

- ITEM 558.01M - TRANSVERSE SAWCUT GROOVING (SM)
- ITEM 18559.1896M - PROTECTIVE SEALING FOR STRUCT. CONC. (SM)
- ITEM 578.020004M - OVERLAY CONCRETE, CLASS "E" (SM)
- ITEM 578.030004M - SLAB RECONSTRUCTION CONCRETE, CLASS "D" OR "E" (SM)
- ITEM 579.02M - REINFORCING BAR EXPOSURE (SM)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	332	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093572

#### GENERAL NOTES:

THIS WORK ONLY PERTAINS TO BIN 1093572 NB.

THE AREAS SHOWN ARE THE RESULTS OF FIELD  
INVESTIGATIONS AND ARE ONLY APPROXIMATE.  
THE ACTUAL LIMITS SHALL BE AS DIRECTED BY  
ENGINEER.

NO FULL DEPTH SLAB REPAIRS ARE EXPECTED  
AT THESE LOCATIONS.

REFER TO DRAWING NO. GN-1 FOR SERIALIZED  
ITEM NOTES.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
BRIDGE DECK REPAIRS

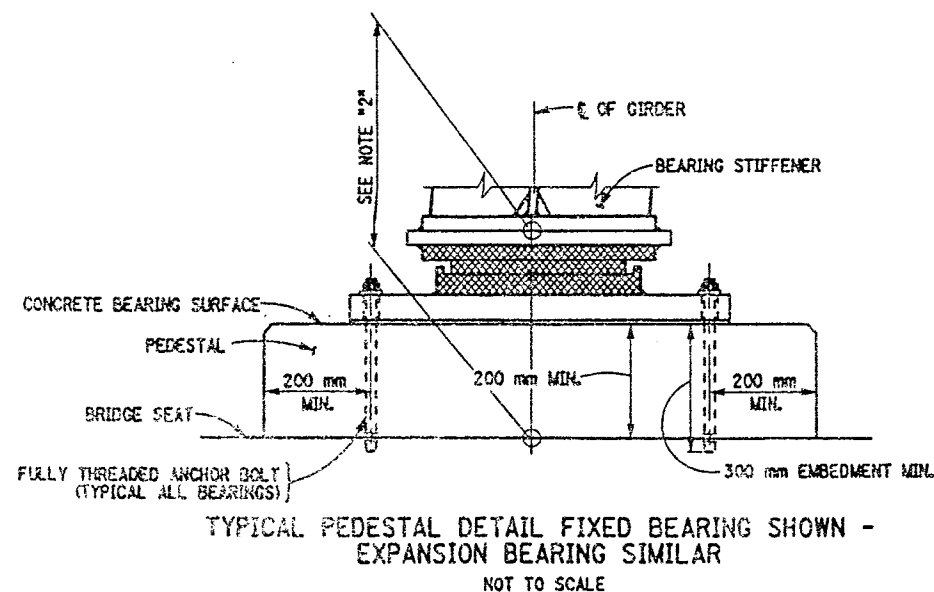
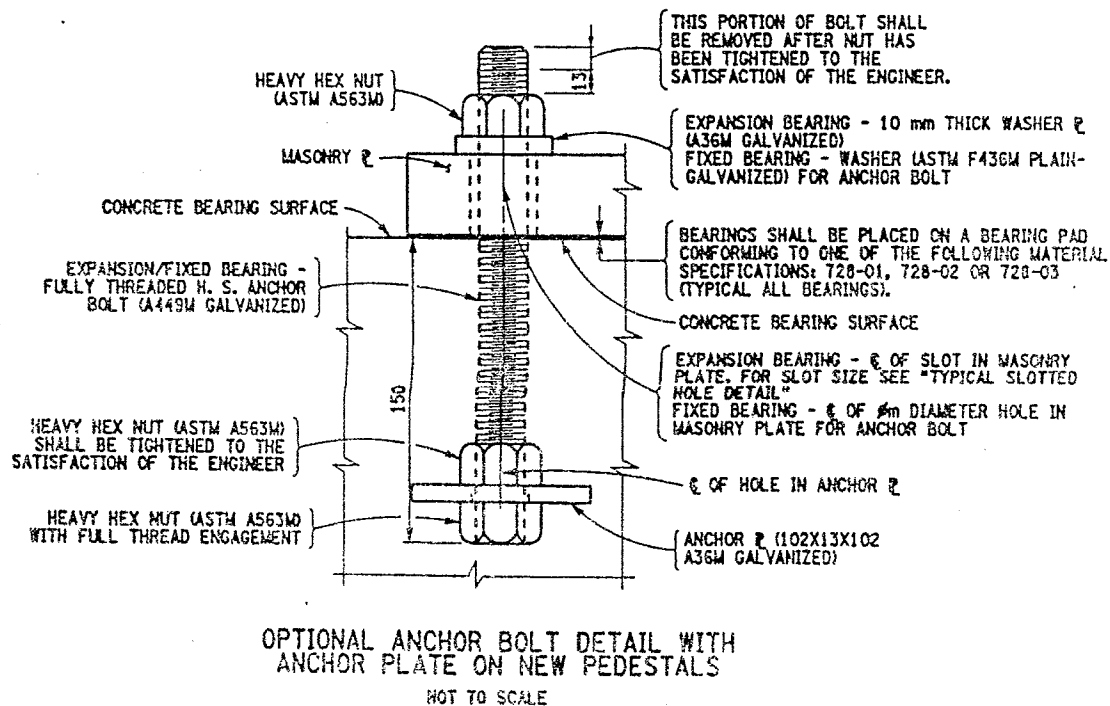
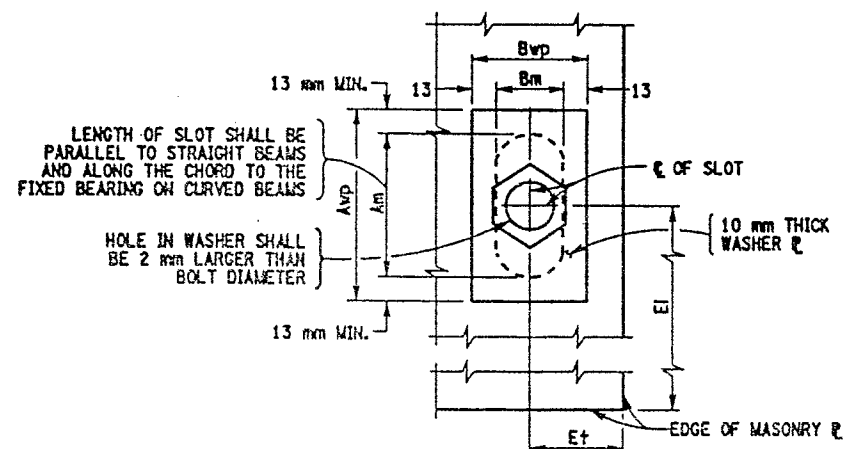
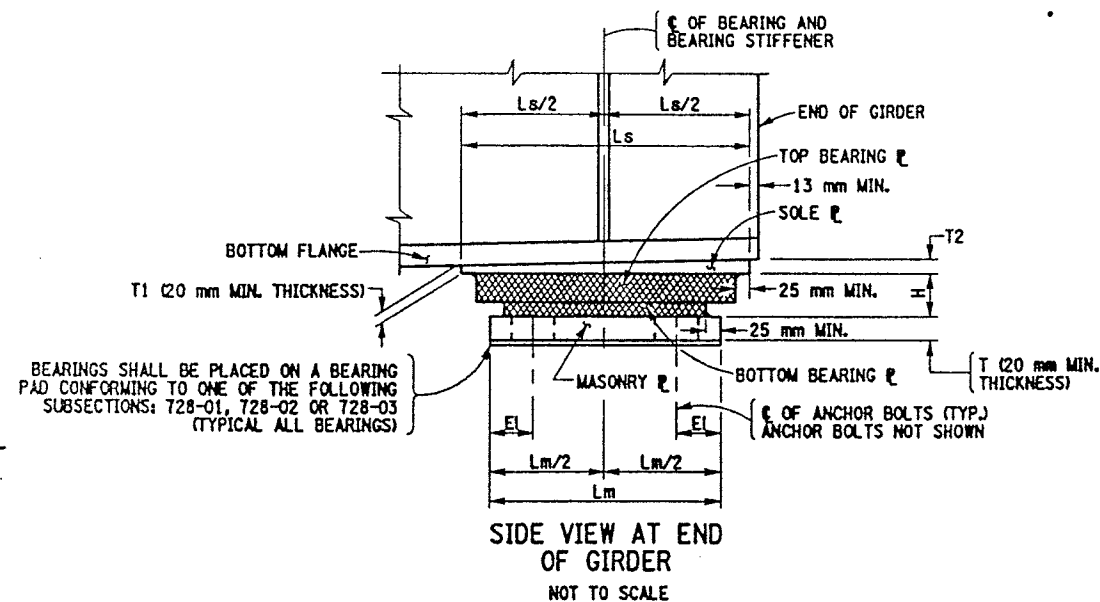
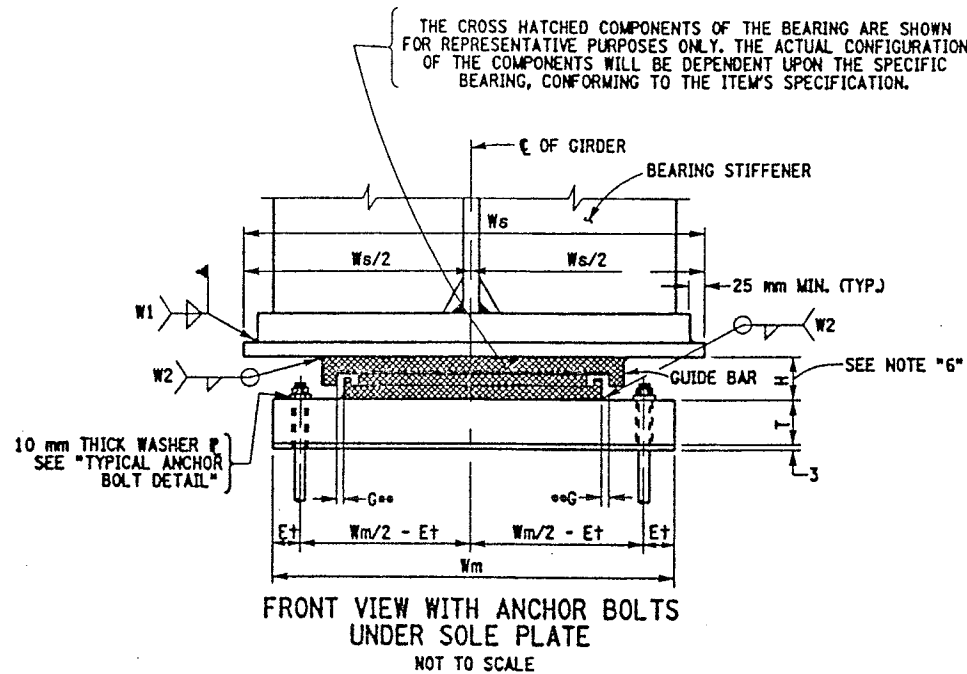


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	DR17-1



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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	341	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.J.N. VARIOUS	

#### NOTES:

THE CONTRACTOR SHALL SUPPLY MULTI-ROTATIONAL STRUCTURAL BRIDGE BEARINGS CONFORMING TO THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 565 AND SUBJECT TO THE FOLLOWING CONDITIONS:

1. THE BEARING DEVICES SUPPLIED SHALL BE CAPABLE OF TRANSMITTING THE LOADS AND MOVEMENT SHOWN ON THESE PLANS.
2. THE DIMENSION "H" IN THE BEARING TABLE REPRESENTS THE ASSUMED TOTAL HEIGHT OF BEARING MECHANISM BETWEEN THE SOLE PLATE AND MASONRY PLATE USED BY THE DESIGNER TO ESTABLISH THE PEDESTAL ELEVATIONS. THE MINIMUM PEDESTAL HEIGHT SHALL NOT BE CHANGED WITHOUT WRITTEN APPROVAL OF THE DEPUTY CHIEF ENGINEER (STRUCTURES).
3. MASONRY PLATES ARE TO BE DESIGNED. THE MINIMUM CONCRETE EDGE DISTANCE SHALL BE 75 mm AND THE MINIMUM ANCHOR BOLT COVER SHALL BE 200 mm.
4. THE BEARING DEVICE, MASONRY PLATE, SOLE PLATE, ANCHOR BOLTS, NUTS, WASHER PLATES AND BEARING PAD SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEMS.
5. ALL EXPANSION BEARINGS SHALL HAVE A MAXIMUM FRICTION COEFFICIENT OF 3%.
6. IF THE ANCHOR BOLTS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 25 mm SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF THE SOLE PLATE.
7. ALL STEEL SHALL CONFORM TO ASTM A588M.
8. ALL METAL COMPONENTS OF THE BEARING SYSTEM WHICH ARE LIABLE TO COME INTO CONTACT DURING THE TRANSLATION SHALL HAVE A TEFLON SLIDING SURFACE FINISH.
9. ALL STEEL FABRICATION SHALL CONFORM TO THE PROVISIONS OF THE LATEST EDITION OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.

WHENEVER JACKING OF THE SUPERSTRUCTURE IS NEEDED TO RESET THE BEARINGS, THE CONTRACTOR SHALL SUBMIT A JACKING SEQUENCE TO THE E.I.C. FOR APPROVAL.

#### LIST OF ITEMS USED:

ITEM 565.1522M - TYPE M.R. EXPANSION BEARING (1001 TO 2000KN) (EA)  
ITEM 565.1722M - TYPE M.R. FIXED BEARING (1001 TO 2000KN) (EA)

\*ONE WAY LONGITUDINAL MOVEMENT IS THE MAXIMUM ONE WAY MOVEMENT (EXPANSION OR CONTRACTION) OF THE SUPERSTRUCTURE WHEN BEARINGS ARE SET @ 20°C PLUS 25 MILLIMETERS OF TOLERANCE.

\*\*ON WIDE STRUCTURES AND ON CURVED STRUCTURES PROVISIONS SHALL BE MADE FOR LIMITED LATERAL MOVEMENT.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

MULTI ROTATIONAL BEARINGS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.M1A	3	10/02	BR-1

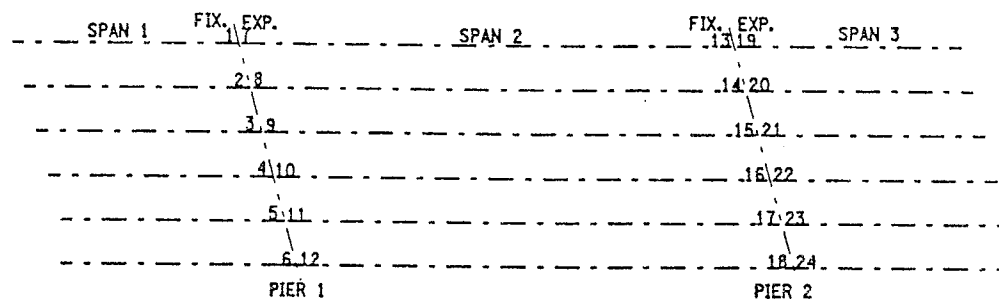


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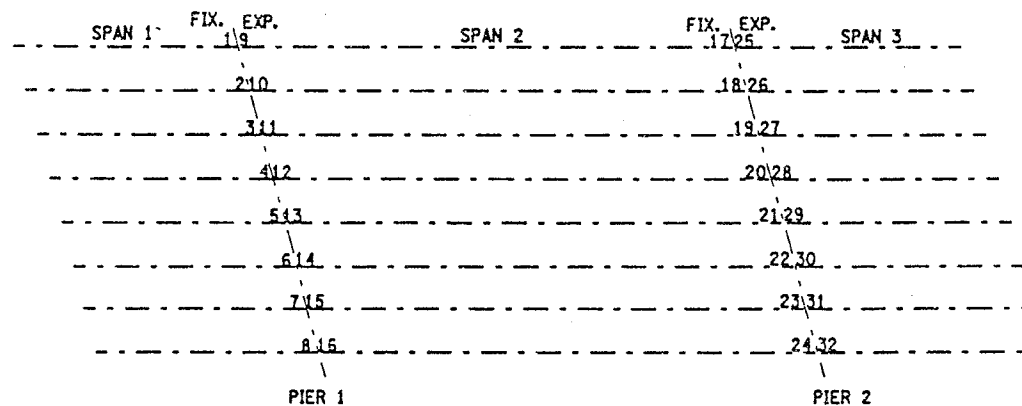
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	342	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

BIN	LOCATION	FIX./ EXP.	ITEM NO.	QUAN. REQ'D.	CAPACITY (KN)		*ONE WAY LONGIT. MOVEMENT	**G) GUIDE CLEARANCE	MASONRY P								WASHER P		SOLE P				BRG. H	ANCHOR BOLTS		WELD SIZE		
									VERT.	HORZ.	Lm	Wm	T	Et	El	Am	Bm	Aw	Bwp	Ls	Ws	T1		T2	Ø	BOLTS/BRG.	W1	W2
1093571	PIER 4 @ 5 & 8 - PIER 5 @ 13 & 16	EXP.	565.1522M	4	1	556.8	295.79	63 mm		445	770	35	80	110	78	48	104	74	545	815	30	30	162	38	4	8	8	
1093571	PIER 4 @ 6 & 7 - PIER 5 @ 14 & 15	EXP.	565.1522M	4	1	556.8	295.79	63 mm		445	770	35	80	110	78	48	104	74	545	660	30	30	162	38	4	8	8	
1093571	PIER 4 @ 1 & 4 - PIER 5 @ 9 & 12	FIX.	565.1722M	4	1	556.8	295.79	-		445	665	62	80	110	-	-	-	-	395	815	60	60	104	38	4	8	8	
1093571	PIER 4 @ 2, 3 - PIER 5 @ 10 & 11	FIX.	565.1722M	4	1	556.8	295.79	-		445	665	62	80	110	-	-	-	-	395	660	60	60	104	38	4	8	8	
1002131	PIER 1 @ 1 & 8	FIX.	565.1722M	2		333.6	63.38	-		260	530	65	50	84	-	-	-	-	240	360	45	45	76	25	4	8	8	
1002131	PIER 1 @ 2 - 7	FIX.	565.1722M	6		333.6	63.38	-		260	530	40	50	84	-	-	-	-	240	360	20	20	76	25	4	8	8	
1002131	PIER 1 @ 9 - 16	EXP.	565.1522M	8		444.8	84.51	42 mm		260	530	40	50	84	65	35	91	61	360	360	20	20	115	25	4	8	8	
1002131	PIER 2 @ 17 & 24	FIX.	565.1722M	2		444.8	84.51	-		280	530	51	50	84	-	-	-	-	260	360	20	20	84	25	4	8	8	
1002131	PIER 2 @ 18 - 23	FIX.	565.1722M	6		444.8	84.51	-		280	530	40	50	84	-	-	-	-	260	360	20	20	84	25	4	8	8	
1002131	PIER 2 @ 25 - 32	EXP.	565.1522M	8		333.6	63.38	33 mm		280	530	40	50	84	65	35	91	61	340	360	20	20	107	25	4	8	8	
1002132	PIER 1 @ 1 & 6	FIX.	565.1722M	2		333.6	63.38	-		250	560	64	50	84	-	-	-	-	250	360	44	44	76	25	4	8	8	
1002132	PIER 1 @ 2 - 5	FIX.	565.1722M	4		333.6	63.38	-		250	560	40	50	84	-	-	-	-	250	360	20	20	76	25	4	8	8	
1002132	PIER 1 @ 7 - 12	EXP.	565.1522M	6		667.2	126.77	42 mm		304	670	40	50	84	65	35	91	61	400	500	20	20	123	25	4	8	8	
1002132	PIER 2 @ 13 - 18	FIX.	565.1722M	6		667.2	126.77	-		304	670	40	50	84	-	-	-	-	300	500	20	20	86	25	4	8	8	
1002132	PIER 2 @ 19 & 24	EXP.	565.1522M	2		333.6	63.38	33 mm		270	560	50	50	84	65	35	91	61	350	360	30	30	107	25	4	8	8	
1002132	PIER 2 @ 20 - 23	EXP.	565.1522M	4		333.6	63.38	33 mm		270	560	40	50	84	65	35	91	61	350	360	20	20	107	25	4	8	8	

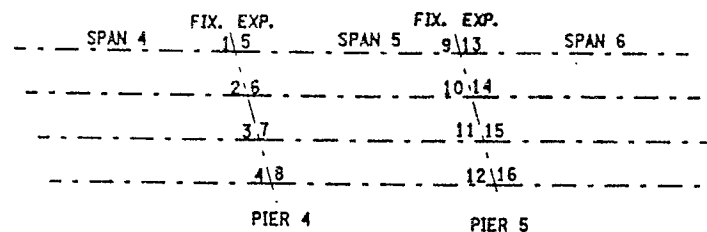
T2 IS UPSTATION OF T1.



BEARING LOCATION SCHEMATIC  
BIN 1002132



BEARING LOCATION SCHEMATIC  
BIN 1002131



BEARING LOCATION SCHEMATIC  
BIN 1093571

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE		DATE	
MULTI ROTATIONAL BEARINGS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.M1A	REGION 3	DATE 10/02	DRAWING NO. BR-2



PIER	SPAN-GIRDER	EXP. BRG. TYPE	SOLE P- DIM. "A"
SB-P1	2 - A11	III	584
SB-P3	4 - 1&4	II	813
SB-P3	4 - 2&3	II	660
SB-P6	7 - 1&4	II	508
SB-P6	7 - 2&3	I	610
SB-P7	8 - 1&4	I	635
SB-P7	8 - 2&3	I	610
SB-P9	10 - A11	I	660
SB-P10	11 - 1&4	I	635
SB-P10	11 - 2&3	I	610
SB-P11	12 - 1&4	I	635
SB-P11	12 - 2&3	I	610
SB-P13	14 - 1&4	I	635
SB-P13	14 - 2&3	I	610
NB-P1	1 - A11	III	584
NB-P2	3 - 1&4	III	762
NB-P2	3 - 2&3	III	711
NB-P3	4 - 1&4	II	813
NB-P3	4 - 2&3	II	660
NB-P4	5 - 1&4	II	813
NB-P4	5 - 2&3	II	660
NB-P6	7 - 1&4	II	508
NB-P6	7 - 2&3	II	610
NB-P7	8 - 1&4	II	635
NB-P7	8 - 2&3	I	610
NB-P8	9 - 1&4	I	635
NB-P8	9 - 2&3	I	610
NB-P10	11 - 1&4	I	635
NB-P10	11 - 2&3	I	610
NB-P11	12 - 1&4	I	635
NB-P11	12 - 2&3	I	610

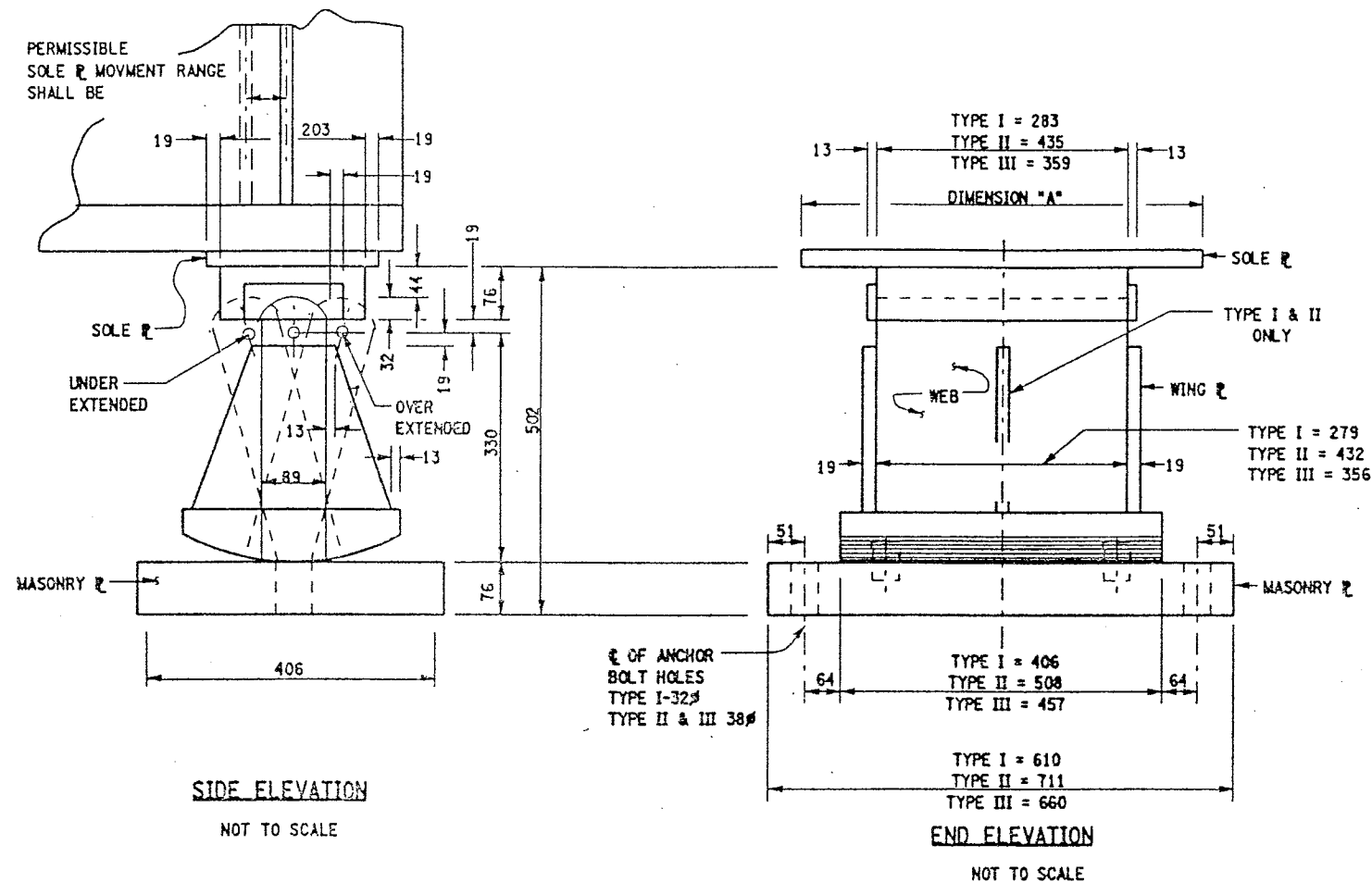
ITEM CLARIFICATION NOTE:

ITEM 589.52NNNM, REMOVAL OF EXISTING STEEL IS A  
SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL  
BE INCORPORATED BY BRIDGE:  
BIN 1093571 SB SHALL USE ITEM 589.520001W  
BIN 1093572 NB SHALL USE ITEM 589.520002W

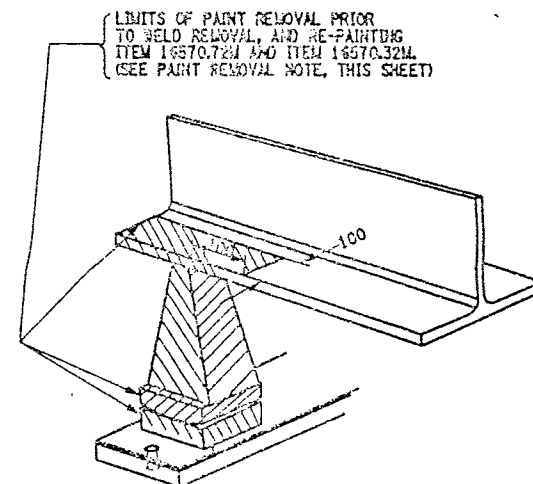
ITEM 571.01NNNM - THE TREATMENT AND DISPOSAL OF PAINT  
REMOVAL WASTE IS A SERIALIZED ITEM AND THE FOLLOWING PAY  
ITEMS SHALL BE INCORPORATED BY BRIDGE:  
BIN 1093571 SB SHALL USE ITEM 571.010001M  
BIN 1093572 NB SHALL USE ITEM 571.010002M

ITEM 570.10NNNNW - ENVIRONMENTAL GROUND PROTECTION  
IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS  
SHALL BE INCORPORATED BY BRIDGE.  
BIN 1093571 SB SHALL USE ITEM 570.090001W  
BIN 1093572 NB SHALL USE ITEM 570.090002W

ITEM 570.09NNNM - ENVIRONMENTAL WATER PROTECTION  
IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS  
SHALL BE INCORPORATED BY BRIDGE  
BIN 1093571 SB SHALL USE ITEM 570.100001W  
BIN 1093572 MB SHALL USE ITEM 570.100002W



EXISTING HIGH ROCKER EXPANSION BEARING  
BIN 1093571 & BIN 1093572



PAINT REMOVAL DETAIL

SCALE: 1 TO 5

PAINT REMOVAL NOTE:

1. IN CONJUNCTION WITH THE USE OF ITEM 16570.32M AND ITEM 16570.76M, ITEM 571.01NNNNM - TREATMENT & DISPOSAL OF PAINT REMOVAL WASTE AND EITHER ITEM 570.10NNNNM - ENVIRONMENTAL GROUND PROTECTION OR ITEM 570.09NNNNM - ENVIRONMENTAL WATER PROTECTION SHALL ALSO BE INCORPORATED DURING THE PAINT REMOVAL OPERATIONS.
2. ALL NEW PARTS INSTALLED AT THIS LOCATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 15565.4302. THE CONTRACTOR WILL BE PAID FOR A QUANTITY OF ONE FOR ALL NEW MATERIALS AT THIS LOCATION.
3. ALL EXISTING SURFACES SHALL BE CLEANED AND LUBRICATED TO ENSURE FREE MOVEMENT, ITEM 15565.4302M.

LIST OF ITEMS USED:

ITEM 571.010001M - TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE (CM)  
ITEM 571.010002M - TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE (CM)  
ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	350	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.I.N. 1093571 & 1093572	

BRIDGE BEARING RESTORATION NOTES:

1. BRIDGE BEARING RESTORATION ITEM 15565.4302M SHALL INCLUDE ALL DESIGNATED WORK AS PER THE SPECIFICATION.
2. STRUCTURAL LIFTING SHALL BE USED WITH ALL EXPANSION BEARING RESTORATION.
3. IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER SPAN (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARINGS), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN SPECIFICATIONS SECTION 585-STRUCTURAL LIFTING OPERATIONS.
4. BEARING RESTORATION SHALL AS A MINIMUM, AND IN ALL CASES INCLUDE REPLACEMENT OF BRONZE PLATE.
5. FIXED BEARING TO BE CLEANED IN PLACE. DO NOT DISASSEMBLE.
6. ON BINS 1093571 & 1093572, BRIDGE BEARING RESTORATION ITEM 15564.4302M FOR THE HIGH ROCKER BEARINGS SHALL INCLUDE ONLY THOSE BEARINGS SHOWN ON DWG BR-11 WHICH ARE EITHER OVER EXTENDED OR UNDER EXTENDED MORE THAN 5° FROM WHAT SHOULD BE ANTICIPATED FOR THE AMBIENT TEMPERATURE. THOSE EXPANSION BEARINGS WHICH ARE BEING RESTORED SHALL BE RESET TO ORIGINAL SPECIFICATIONS.

JACKING NOTES:

THE METHOD OF LIFTING SHALL BE APPROVED BY THE DEPUTY  
CHIEF ENGINEER (STRUCTURES), DSES, TWO WEEKS PRIOR TO  
THE START OF THE WORK.

NO LIFTING WILL BE ALLOWED UNTIL ALL TEMPORARY SUPPORTS  
ARE SECURED.

WHEN POSSIBLE, THERE WILL BE NO LIVE LOAD DURING LIFTING.

LIFTING SHALL BE CONFINED TO ONE END OF A SPAN AT ANY ONE TIME.

IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER PIER (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARING), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN THE SPECIFICATION SECTION 585-STRUCTURAL LIFTING OPERATIONS.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

**SIGNATURE**

DA: 1.

INTERSTATE 481 SB & NB  
OVER  
CSX RAILROAD  
BEARING RESTORATION DETAILS

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION



FILENAME  
305613ZZ.M1A

REGION  
3

DATE  
10/02

DRAWING NO.  
BR-10



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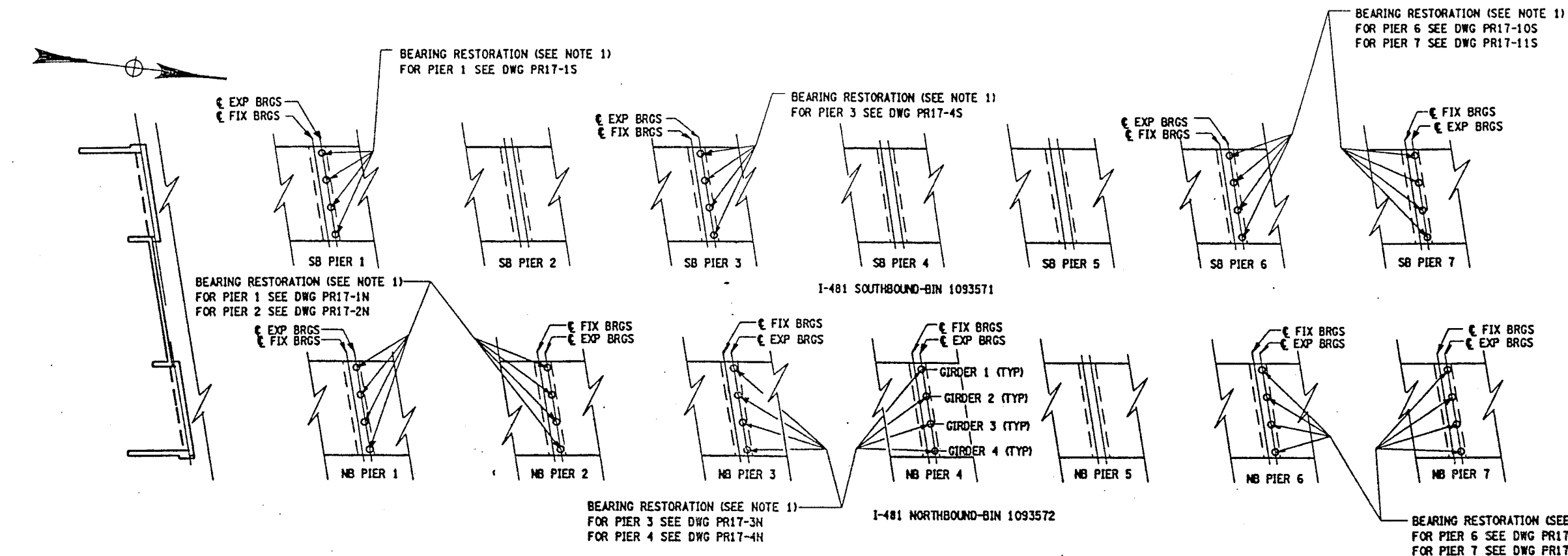
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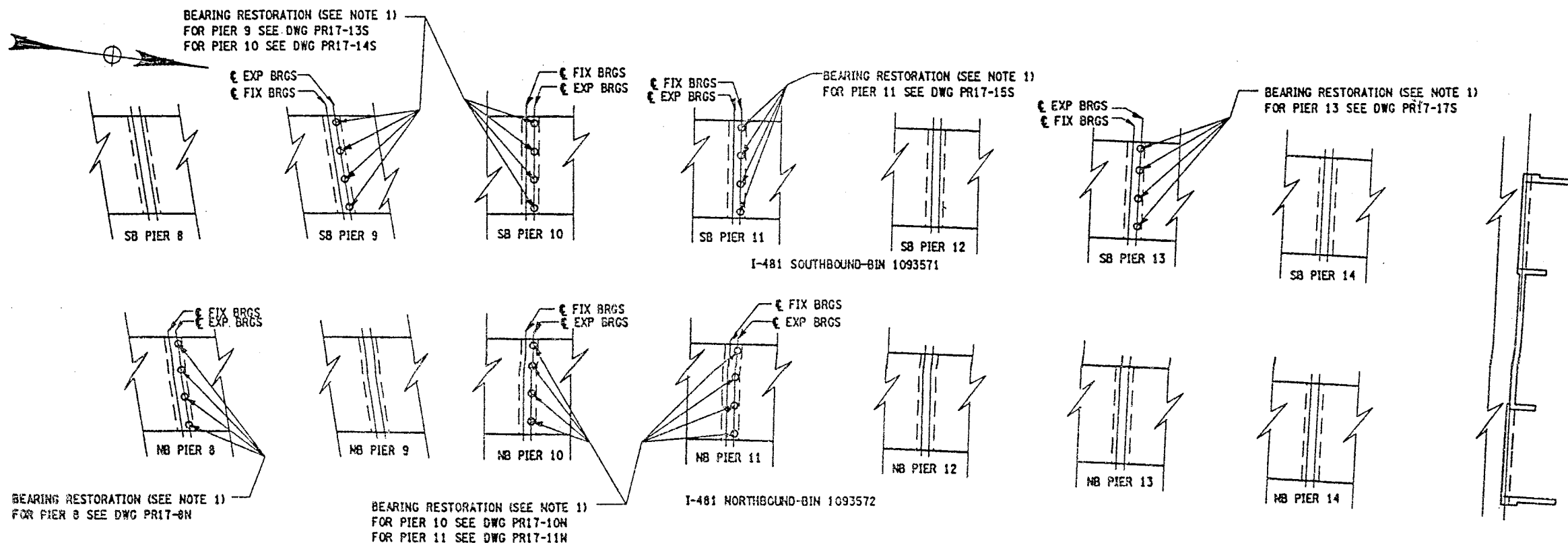
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	351	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.L.N. 1093571 & 1093572		



# NOTES

- BRIDGE BEARING RESTORATION ITEM 15565.4302M AND EITHER STRUCTURAL LIFTING OPERATION - (TYPE B) ITEM 585.02M OR STRUCTURAL LIFTING OPERATION - (TYPE C) ITEM 585.03M



BRIDGE PLAN SCHEMATIC  
SCALE 1:300

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 SB & NB OVER CSX RAILROAD BEARING RESTORATION DETAILS BRIDGE PLAN SCHEMATIC			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 30561372.M1A	REGION 3	DATE 10/02	DRAWING NO. BR-11



01330

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	364	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.J.N. ALL BINS	

[illegible]

INFORMATIONAL NOTES:

BIN 1093572

CLEAN EXISTING DRAINAGE SYSTEMS AT OPEN JOINTS (OPEN JOINTS TO REMAIN). AS SHOWN ON CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER.

FOR JOINT DETAILS REFER TO THE FOLLOWING DRAWINGS:

DWG. NO. JD-1 - MODIFIED ARMORED COMPRESSION SEAL JOINT SYSTEM.  
 DWG. NO. JD-24 - ONE-CELL MODULAR JOINT SYSTEM.  
 DWG. NO. JD-25 - TWO-CELL MODULAR JOINT SYSTEM.

LIST OF BRIDGE JOINT ITEMS USED:

```

ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL (m)
ITEM 566.02M - MODULAR EXP. JOINT SYSTEM TWO-CELL (m)
ITEM 567.31M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m)
ITEM 567.32M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)
ITEM 567.36M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)
ITEM 16567.640001M - REPLACE COMPRESSION SEAL FOR EXISTING BRIDGE JOINTS (m)

```

### LEGEND

EXISTING JOINT TYPE:

ACJ = ARMORED COMPRESSION JOINT SYSTEM  
MOD = MODULAR JOINT SYSTEM  
MAC = MODIFIED ARMORED COMPRESSION  
SYSTEM (NO HORIZ. ARMORING ANGLE)  
ADA = ARMORED DECK ANGLE  
SS = STRIP SEAL JOINT  
OPEN = OPEN JOINT

PROPOSED JOINT TYPE:

MAC-1 = MOD. ARM./COMP. SEAL JT. SYS. (A-1)  
MAC-2 = MOD. ARM./COMP. SEAL JT. SYS. (A-2)  
MAC-5 = MOD. ARM./COMP. SEAL JT. SYS. (A-5)  
MAC-6 = MOD. ARM./COMP. SEAL JT. SYS. (A-6)  
RCS = REPLACE EXISTING COMPRESSION SEAL  
RADA = REMOVE ARMOR DECK ANGLE  
MOD-1 = MODULAR JT. SYS. (ONE-CELL)  
MOD-2 = MODULAR JT. SYS. (TWO-CELL)

## JOINT BEND LOCATION:

N	=	NO BENDS
CRB	=	CURB LINE
PAV'T	=	PAVEMENT

GENERAL NOTES:

- ALL MEASUREMENTS SHALL BE FIELD VERIFIED.
- CURB TO CURB LENGTHS ARE MEASURED ALONG C OF JOINT.
- MULTIPLE DIMENSIONS ARE SHOWN LOOKING UP-STATION, LEFT TO RIGHT.
- ALL DIMENSIONS ARE SHOWN IN METERS.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

**SIGNATURE**

DATE \_\_\_\_\_

INTERSTATE 481 VARIOUS BRIDGES

BRIDGE JOINT TABLE

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

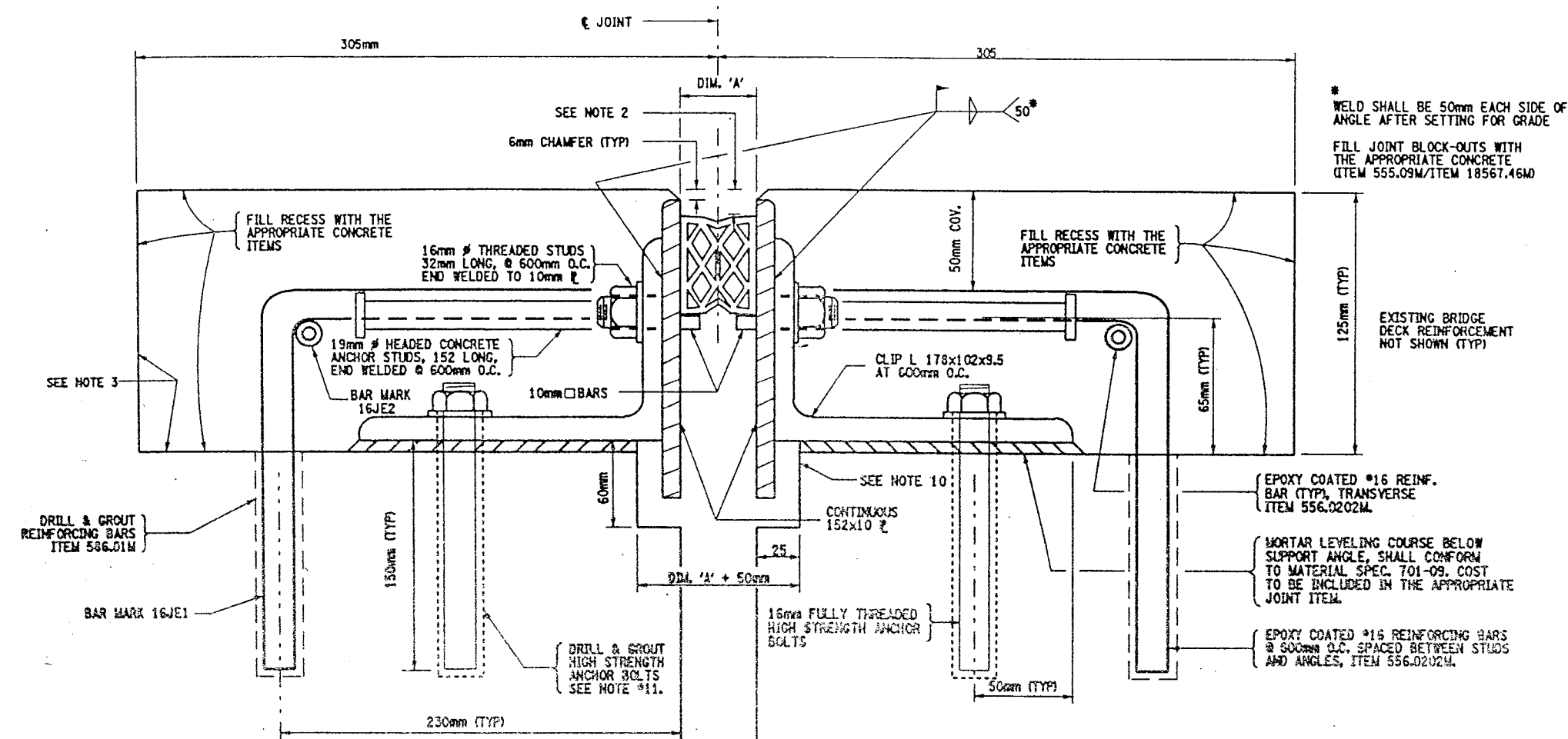


FILENAME	REGION	DATE	DRAWING NO.
305613AJ-JA1	3	10/02	JT-4



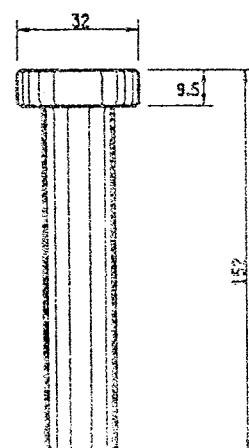
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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	365	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. ALL BIN'S	

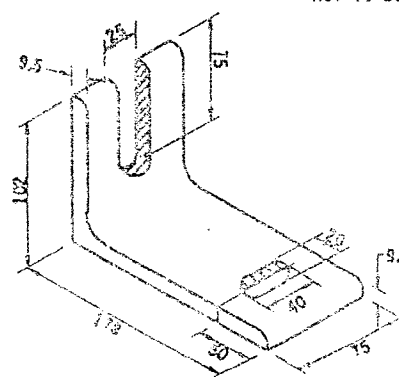


### MODIFIED ARMORED COMPRESSION JOINT DETAIL

FOR INSTALLATION LOCATIONS SEE JOINT TABLE  
NOT TO SCALE



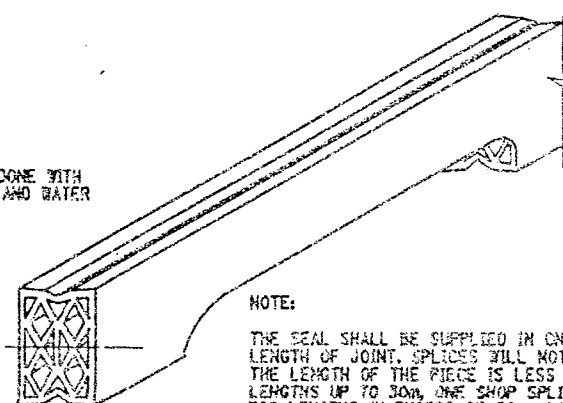
DETAIL OF HEADED CONCRETE ANCHOR STUD  
NOT TO SCALE



DETAIL OF CLIP ANGLE  
NOT TO SCALE

NOTE:  
ALL CUTTING TO BE DONE WITH A COPING SAW, SOAP AND WATER

DO NOT CUT SEAL ABOVE THIS LINE



NOTE:  
THE SEAL SHALL BE SUPPLIED IN ONE PIECE FOR THE FULL LENGTH OF JOINT. SPLICES WILL NOT BE PERMITTED WHEN THE LENGTH OF THE PIECE IS LESS THAN 15m. FOR LENGTHS UP TO 30m, ONE SHOP SPLICE WILL BE PERMITTED. FOR LENGTHS IN EXCESS OF 30m, SHOP SPLICES MAY BE PLACED AT APPROXIMATELY 15m INTERVALS.

DETAIL FOR CUTTING SEAL  
NOT TO SCALE

### EPOXY POLYSULFIDE GROUT NOTE:

CONTRACTOR MAY WITH THE APPROVAL OF THE ENGINEER USE MATERIAL SPECIFICATION 721-03 EPOXY POLYSULFIDE GROUT, AT THE RECESSES, INSTEAD OF THE 12 HOUR CONTINUOUS PREWETTING REQUIREMENTS (PROJECT PROPOSAL). CONTRACTOR MUST ENSURE PROPER CONSTRUCTION PRACTICES ARE FOLLOWED WHEN USING THIS GROUT. THE USE OF EPOXY POLYSULFIDE GROUT SHALL BE AT NO ADDITIONAL COST TO THE STATE.

SEALS (mm)			ARMORED JOINT SYSTEM	
TYPE	NOMINAL WIDTH	DIM. "A" @ 20°C.	TYPE	END CONDITION
1	44	25	A1	Fixed End Only
2	51	30	A2	Exp. up to 18 m
3	64	38	A3	Exp. over 18 m to 23 m
4	76	44	A4	Exp. over 23 m to 27 m
5	89	52	A5	Exp. over 27 m to 38 m
6	102	60	A6	Exp. over 38 m to 46 m

Maximum Skew Limiter: Fixed End - No Limit  
Exp. End - 45° A2 thru A6

### LIST OF ITEMS USED:

ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)  
ITEM 556.0202M - EPOXY COATED BAR REINF. FOR STRUCT. (C)  
ITEM 567.31M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m)  
ITEM 567.32M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m)  
ITEM 567.35M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)  
ITEM 567.36M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)  
ITEM 18567.46M - ELASTOMERIC CONC. FOR BRIDGE JT. SYSTEMS 60  
ITEM 586.01M - DRILL & GROUT REINF. BARS (mm)

### GENERAL NOTES:

- THE TEMPERATURE OF THE BRIDGE MUST BE TAKEN ON THE STRUCTURAL STEEL SURFACE TO DETERMINE THE TEMPERATURE CORRECTION FOR THE JOINT OPENINGS.
- THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NORMAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6mm NOR MORE THAN 19mm BELOW THE TOP OF THE ROADWAY.
- RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACE AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE, FOR 12 HOURS. NOTE THE USE OF MATERIAL SPEC. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, SEE INSERT IN PROJECT PROPOSAL.
- A WATER-TIGHT INTEGRITY TEST SHALL BE PERFORMED BY THE CONTRACTOR AT ALL COMPRESSION SEAL JOINT INSTALLATIONS. THE FOLLOWING TEST PARAMETERS SHALL BE INCORPORATED IN THE TEST:
  - A 15 MINUTE MINIMUM PERIOD OF STANDING WATER, WITH A 25mm MINIMUM DEPTH SHALL BE USED.
  - IN ADDITION, IN LOCATIONS OF COPED AREAS OF THE SEAL, BENDS, ETC., WATER PRESSURE SHALL BE APPLIED, TO THE SATISFACTION OF THE EIC FOR A 15 MINUTE PERIOD.
  - LIMITS OF TEST AREA SHALL BE FROM FACE OF CURB TO FACE OF CURB ON THE DECK SURFACE.
- NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THE JOINT IF, IN THE OPINION OF THE ENGINEER, THE INSTALLED JOINT LEAKS WITHIN THE 15 MINUTE TEST PERIOD.
- PRIOR TO THE START OF WORK AT EACH JOINT, THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR THE SPECIFICS OF THE TESTING, INCLUDING CONTAINMENT OF THE WATER AND THE METHOD TO BE USED FOR ACCESS BY THE E.I.C. TO THE BOTTOM OF THE JOINT BEING TESTED.
- THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THE TESTING WHICH INCLUDES, BUT IS NOT LIMITED TO:
  - A CONTAINMENT SYSTEM FOR THE TEST WATER.
  - PROVISIONS FOR E.I.C. ACCESS TO THE BOTTOM OF THE JOINT. SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE JOINT ITEMS.
- THE COST OF ALL LABOR, EQUIPMENT, AND MATERIALS TO INSTALL THE NEW JOINT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT ITEM.
- MORTAR LEVELING COURSE SHALL CONFORM TO MATERIAL SPECIFICATION 701-09 AND SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE JOINT ITEM.
- THE DIMENSIONS OF THE REMOVAL AREA UNDER THE 152x10 PLATES ARE SHOWN TO ALLOW SPACE FOR THE PLATES TO REST FREELY. IF THERE IS ALREADY ADEQUATE SPACE, NO CONCRETE REMOVAL OR REPLACEMENT IS REQUIRED IN THIS AREA.
- 16 mm # ASTM A325M ANCHOR BOLT TO BE DRILLED AND GROUTED IN PLACE IN ACCORDANCE WITH THE REQUIREMENTS OF SUB-SECTION 586-3.02. GROUTING MATERIALS SHALL BE IN ACCORDANCE WITH MATERIALS SUB-SECTION 701-07 ANCHORING MATERIALS-CHEMICALLY CURING. HOLES TO BE DRILLED TO THE DIAMETER AND DEPTH RECOMMENDED BY THE MANUFACTURER OF THE GROUTING MATERIAL Q.M. DEPTH OF 150 mm). THE COST OF THE ANCHORS, INCLUDING DRILLING AND GROUTING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT SYSTEM ITEM.
- IT IS DESIRABLE TO HAVE THE ARMORED JOINT WITH ITS COMPRESSION SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR INSTALLATION IN ITS PREFORMED RECESS IN THE STRUCTURAL SLAB. IN CASES WHERE THE ARMORED JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS, THE JOINT SHALL BE SEALED WITH THE COMPRESSION SEAL BEFORE THE STRUCTURE IS OPENED TO TRAFFIC INCLUDING CONSTRUCTION TRAFFIC, AND BEFORE DIS CONTINUING OPERATIONS WHEN WORK IS SUSPENDED DURING THE WINTER.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481

### COMPRESSION SEAL JOINT DETAILS

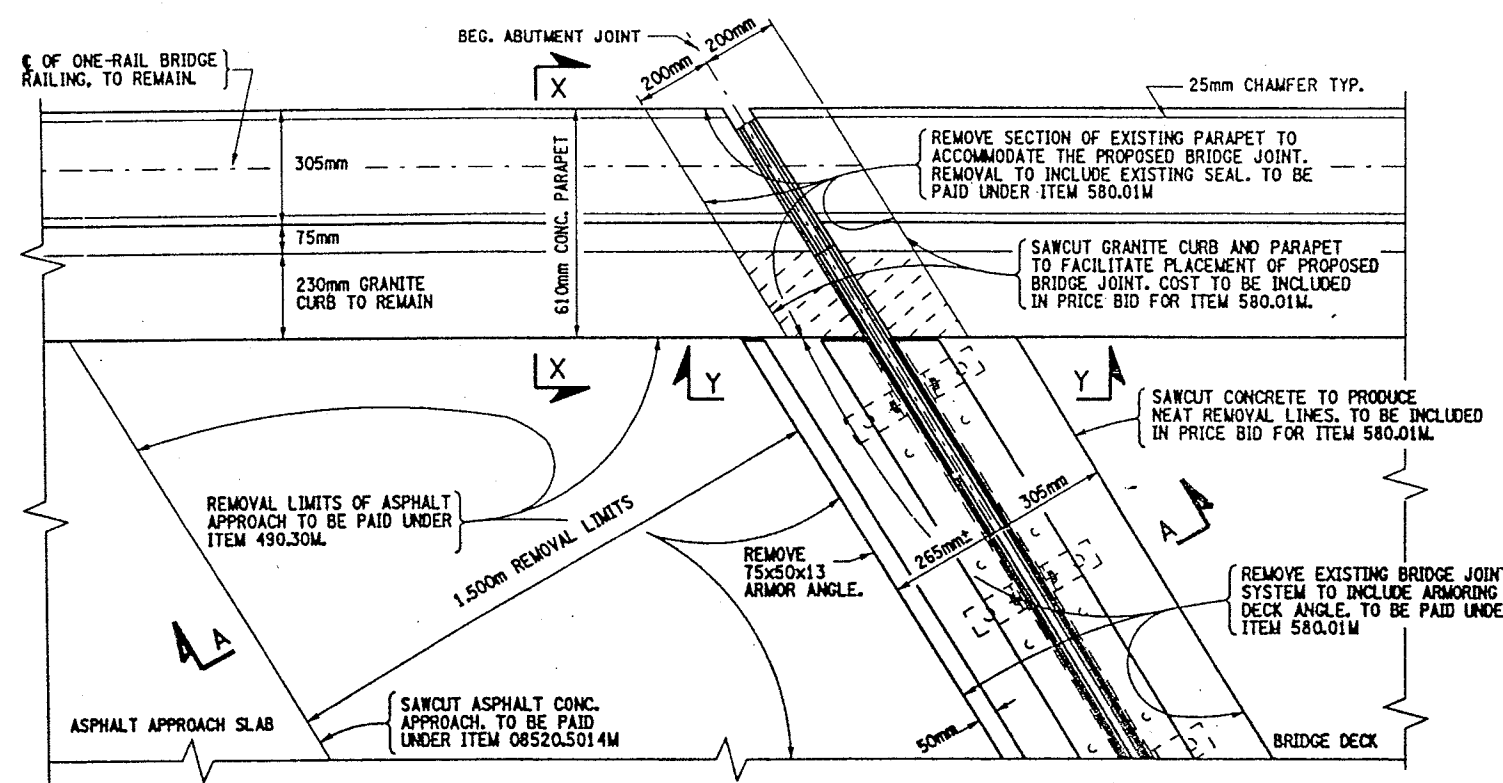


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

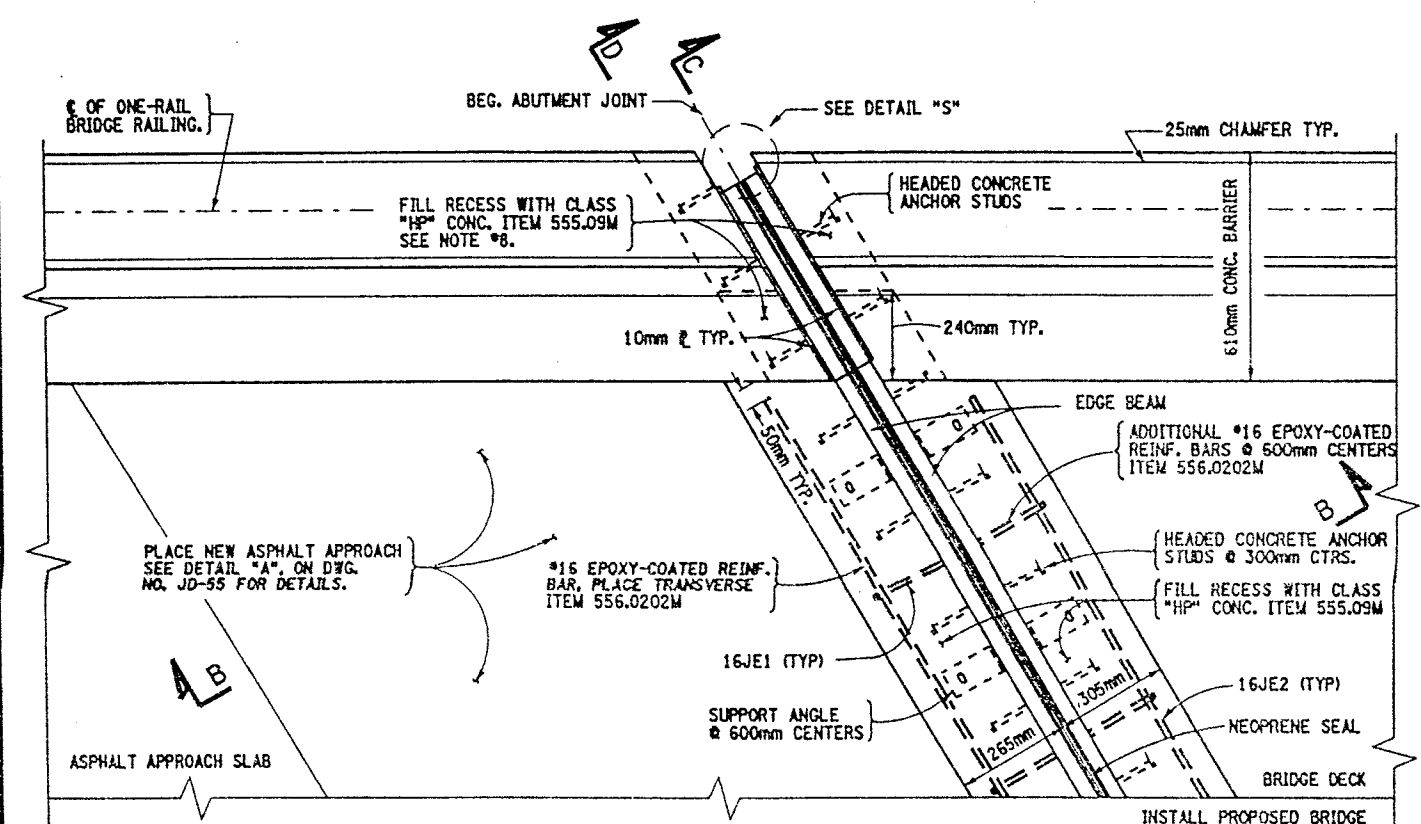
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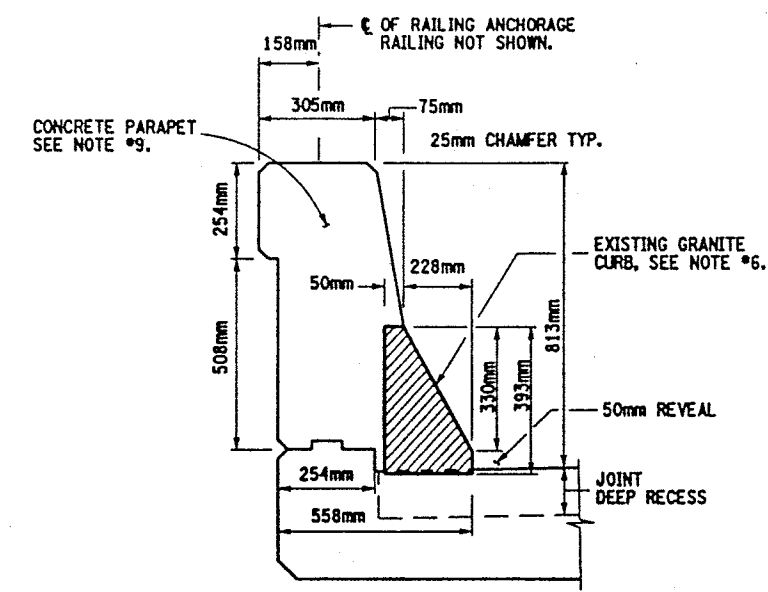
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ESTIMATED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



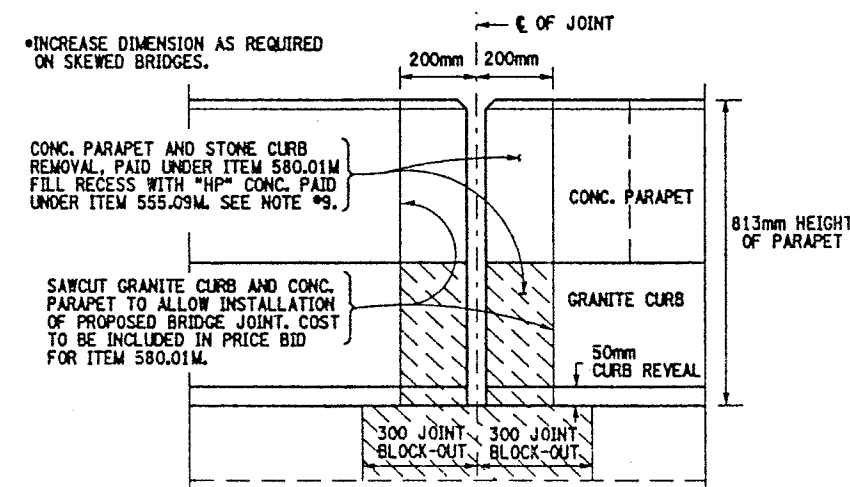
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BIN 1093571 - SOUTH ABUT.  
BIN 1093572 - SOUTH ABUT.  
NOT TO SCALE



PROPOSED BEG. ABUTMENT JOINT PLAN VIEW  
BIN 1093571 - SOUTH ABUT.  
BIN 1093572 - SOUTH ABUT.  
NOT TO SCALE



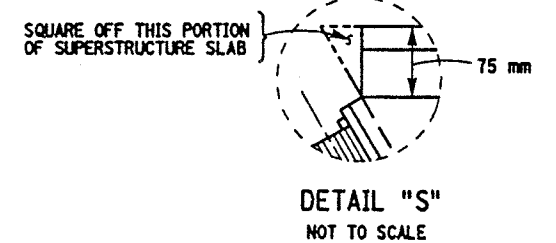
SECTION X-X  
PARAPET CONCRETE REMOVAL DETAIL  
NOT TO SCALE



SECTION Y-Y  
PARAPET CONCRETE REMOVAL DETAIL  
NOT TO SCALE

NOTES:

1. REMOVAL OF ARMORING DECK ANGLE SHALL BE FROM CURB TO CURB.
2. FOR SECTION VIEWS SEE DWG. NO. JD-55 & JD-56.
3. FOR ADDITIONAL INFORMATION REFER TO DWG. NO. JT-3 & JT-4. ALSO SEE ORIGINAL CONTRACT NUMBER FISH 70-7 AND CONTRACT NUMBER D251436 FOR PREVIOUS WORK.
4. THE EXISTING BRIDGE JOINTS BUTT UP TO PARAPET. THE SEAL THRU THE PARAPET IS PLACED SEPARATE.
5. LEFT SIDE OF DECK SHOWN, RIGHT SIDE IDENTICAL.
6. SAW CUTTING OF CONCRETE AND GRANITE CURB SHALL BE INCLUDED IN PRICE BID FOR ITEM 580.01M.
7. REFER TO DWG. NO. JD-24 FOR ONE-CELL MODULAR JOINT SYSTEM DETAILS AND NOTES.
8. FILL RECESS AT PARAPET WITH CLASS "HP" CONCRETE RESTORE TO ORIGINAL DIMENSIONS.
9. REMOVAL DIMENSIONS AT PARAPETS MAY BE INCREASED TO ENCOMPASS ANY DETERIORATED CONCRETE ADJACENT TO THE JOINT BLOCK-OUT AREA, ABOVE.
10. FOR SKEW ANGLES SEE NOTE #8, ON DWG. NO. JD-54.



WORK TO BE DONE:

- BIN 1093571 SB
- REMOVE ARMORING DECK ANGLE AND REPLACE BRIDGE JOINT AT BEGINNING ABUTMENT.
  - REPAIR CONC. HEADERS AT PIERS 1, 2 & 9.
  - CLEAN DRAINAGE SYSTEM AT PIERS 1, 2, 3, 4, 5 & 9.
  - REPLACE BRIDGE JOINTS AT PIERS 6, 7, 8, 10, 11, 12, 13 & 14.
  - REMOVE ARMORING DECK ANGLE AT END ABUTMENT.
- BIN 1093572 NB
- REMOVE ARMORING DECK ANGLE AND REPLACE BRIDGE JOINT AT BEGINNING ABUTMENT.
  - REPAIR CONC. HEADERS AT PIERS 1 & 2.
  - CLEAN DRAINAGE SYSTEM AT PIERS 1, 2, 3, 4 & 5.
  - REPLACE BRIDGE JOINTS AT PIERS 6, 7, 8, 9, 10, 11, 12, 13, & 14.
  - REMOVE ARMORING DECK ANGLE AT END ABUTMENT.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 SB & NB  
OVER  
CSX RAILROAD YARD  
BRIDGE JOINT DETAILS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

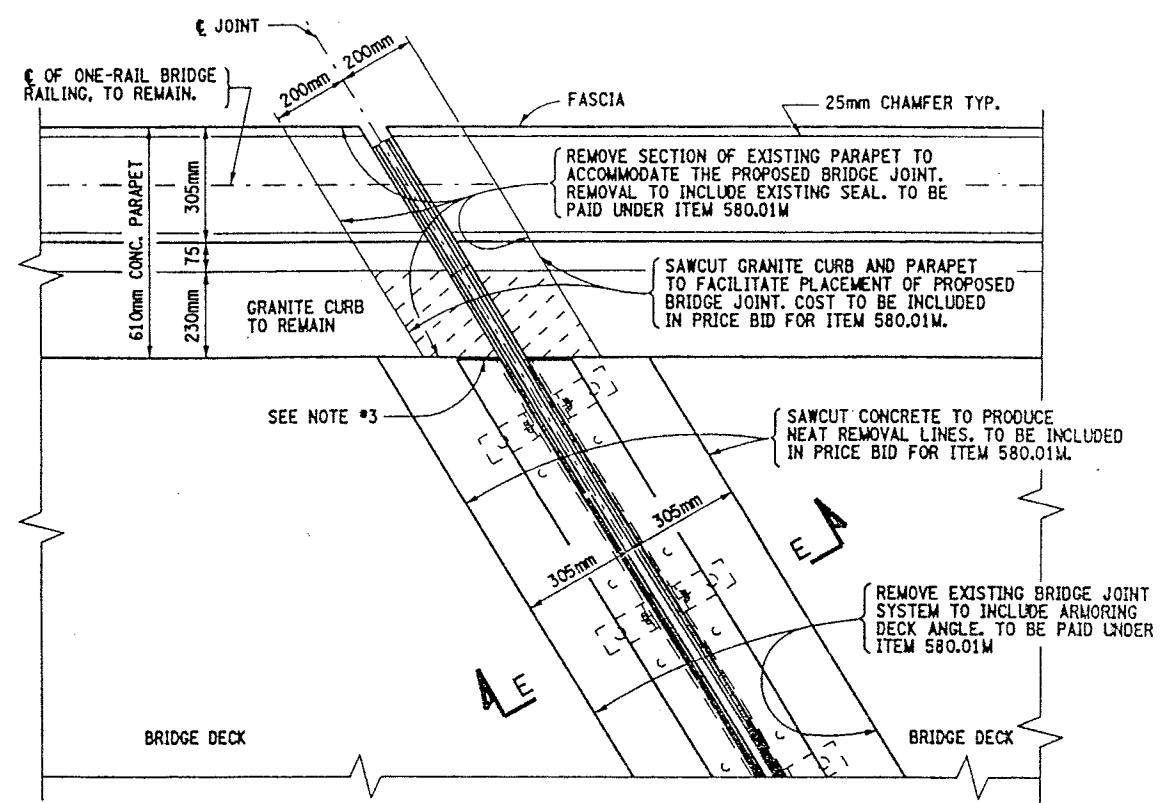
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305613AJJA1 3 10/02 JD-53

ITEMS USED:

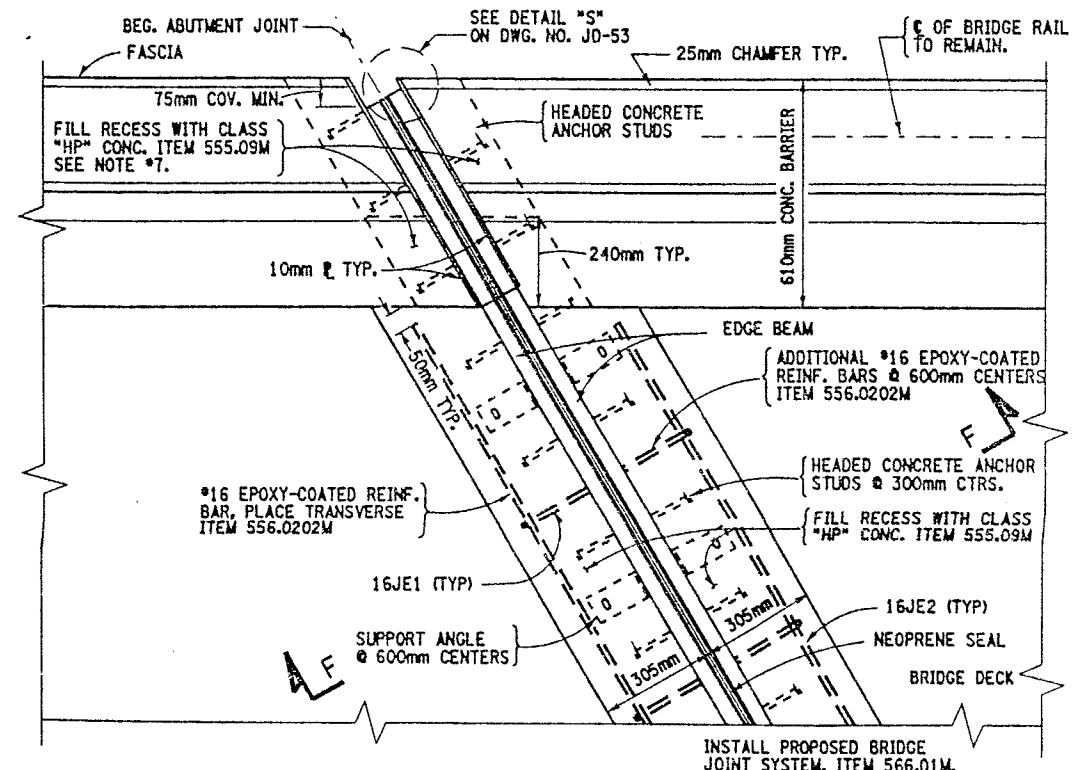
- ITEM 490.30M - MISC. COLD MILLING OF BIT. CONC. (SM)  
ITEM 08520.5014M - SAWCUTTING BIT. CONC. (M)  
ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)  
ITEM 556.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUCT. (G)  
ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL (M)  
ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CM)



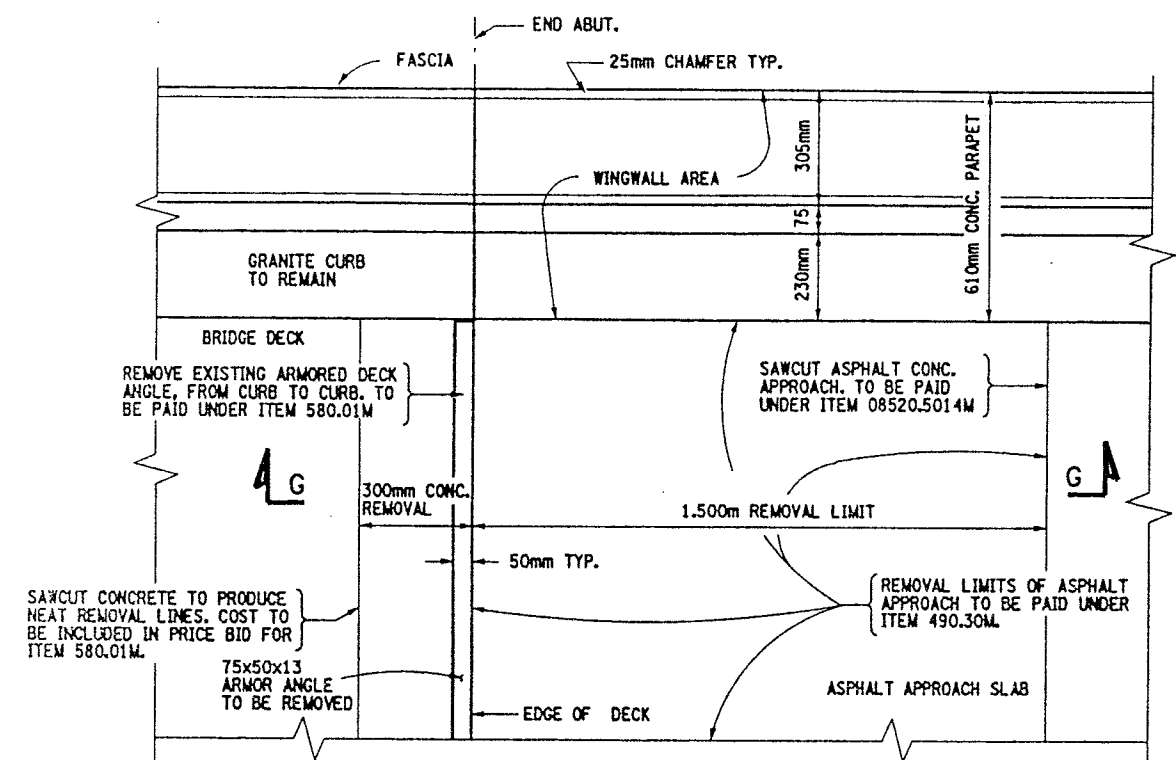
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ESTIMATED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



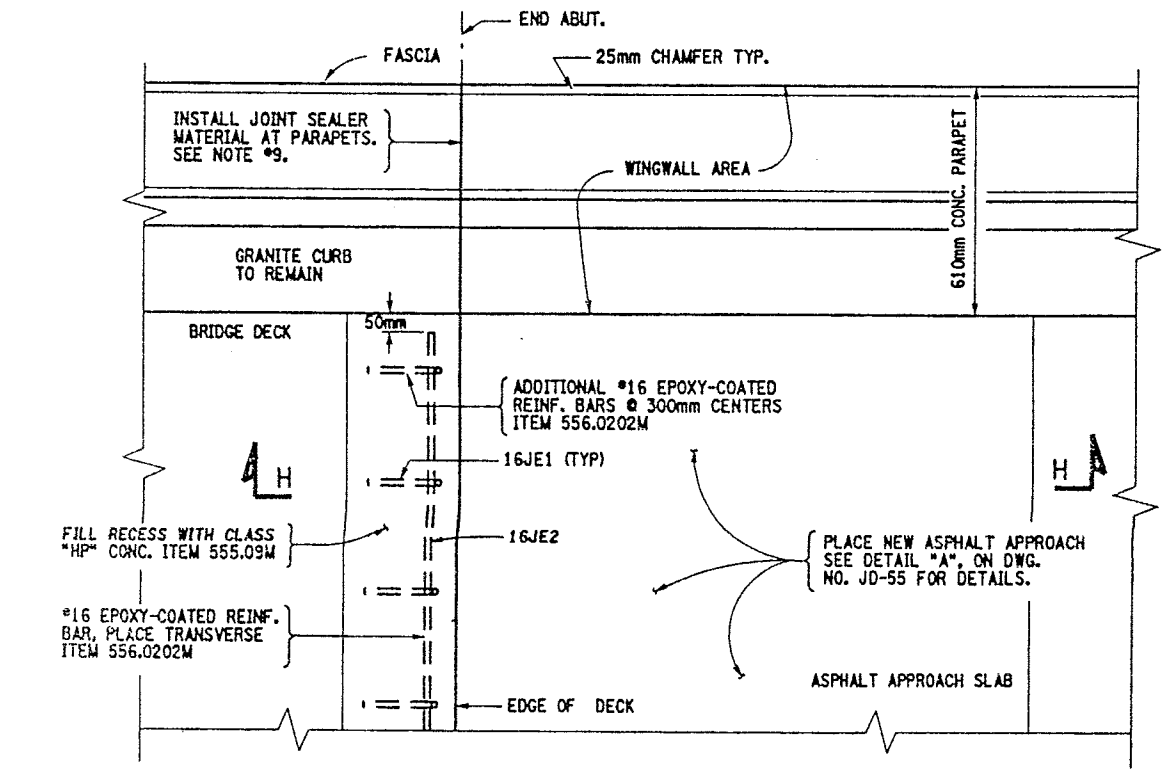
EXISTING PIER JOINT PLAN VIEW  
BIN 1093571 - PIERS 6, 7, 8, 10, 11, 12, 13 & 14  
BIN 1093572 - PIERS 6, 7, 8, 9, 10, 11, 12, 13 & 14  
NOT TO SCALE



PROPOSED PIER JOINT PLAN VIEW  
BIN 1093571 - PIERS 6, 7, 8, 10, 11, 12, 13 & 14  
BIN 1093572 - PIERS 6, 7, 8, 9, 10, 11, 12, 13 & 14  
NOT TO SCALE



EXISTING END ABUTMENT PLAN VIEW  
BIN 1093571 - NORTH ABUTMENT  
BIN 1093572 - NORTH ABUTMENT  
NOT TO SCALE



PROPOSED END ABUTMENT PLAN VIEW  
BIN 1093571 - NORTH ABUTMENT  
BIN 1093572 - NORTH ABUTMENT  
NOT TO SCALE

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	418	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

- NOTES:
- FOR SECTION VIEWS SEE DWG. NO. JD-55 & JD-56.
  - FOR ADDITIONAL INFORMATION REFER TO DWG. NO. JT-3 & JT-4, ALSO SEE ORIGINAL CONTRACT NUMBER FISH 70-7 AND CONTRACT NUMBER D251436 FOR PREVIOUS WORK.
  - THE EXISTING JOINTS AND ARMORING DECK ANGLES BUTT UP TO PARAPET. THE SEAL THRU THE PARAPET IS PLACED SEPARATE.
  - LEFT SIDE OF DECK SHOWN, RIGHT SIDE IDENTICAL.
  - SAW CUTTING OF CONCRETE AND GRANITE CURB SHALL BE INCLUDED IN PRICE BID FOR ITEM 580.01M.
  - REFER TO DWG. NO. JD-24 FOR SINGLE CELL MODULAR JOINT DETAILS AND NOTES.
  - FILL RECESS AT PARAPET WITH CLASS "HP" CONCRETE RESTORE TO ORIGINAL DIMENSIONS.
  - BOTH STRUCTURES HAVE THE FOLLOWING SKEW ANGLES:  
BEGINNING ABUTMENT THROUGH PIER #9 HAVE A SKEW ANGLE OF 8°-43'-42". PIER #10 THROUGH END ABUTMENT HAVE A SKEW ANGLE OF 0°-0'-0".
  - THE INSTALLATION OF NEW JOINT SEALER MATERIAL AT END ABUTMENT PARAPETS SHALL MEET STANDARD SPECIF. 705-06. THE AREA SHALL BE CLEANED PRIOR TO PLACEMENT, TO THE SATISFACTION OF THE ENGINEER. COSTS TO BE INCLUDED IN PRICE BID FOR ITEM 555.09M.

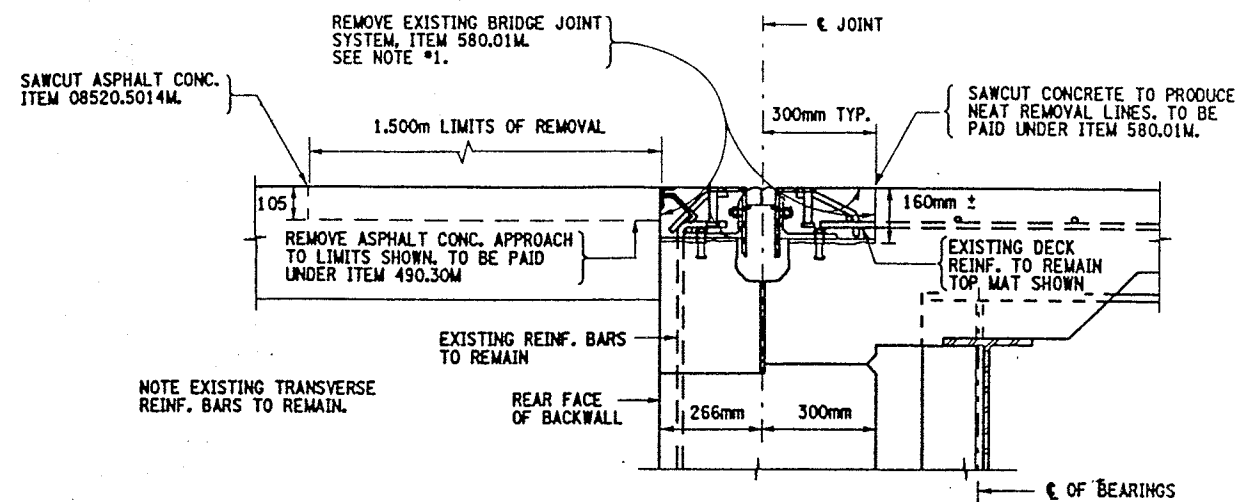
- ITEMS USED:
- ITEM 490.30M - MISC. COLD MILLING OF BIT. CONC. (SM)
  - ITEM 08520.5014M - SAWCUTTING BIT. CONC. (M)
  - ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)
  - ITEM 556.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUCT. (KQ)
  - ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL (M)
  - ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

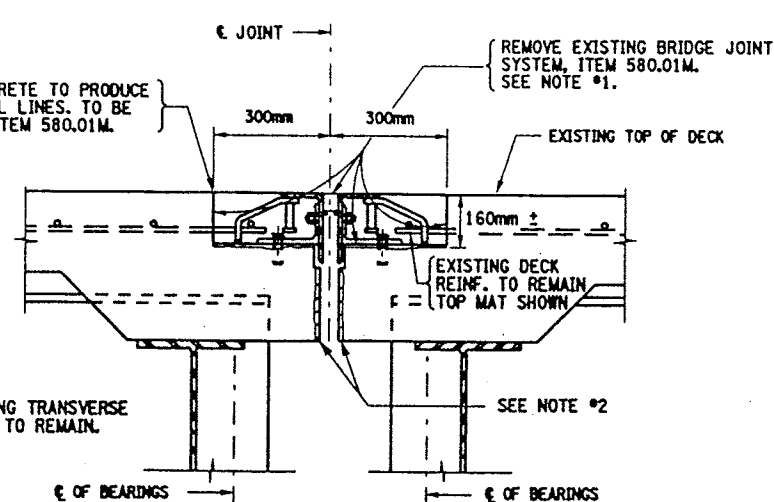
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STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AJJA1	REGION 3	DATE 10/02	DRAWING NO. JD-54



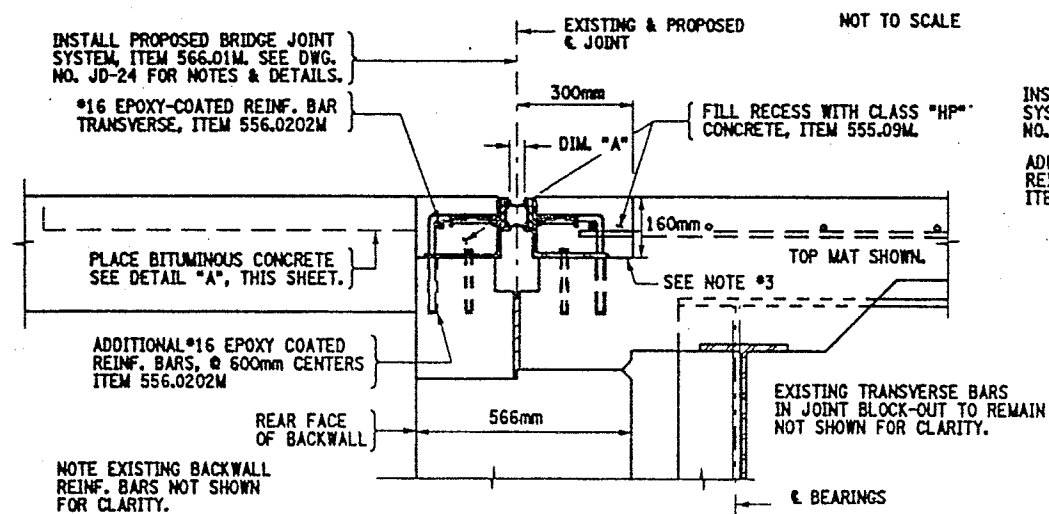
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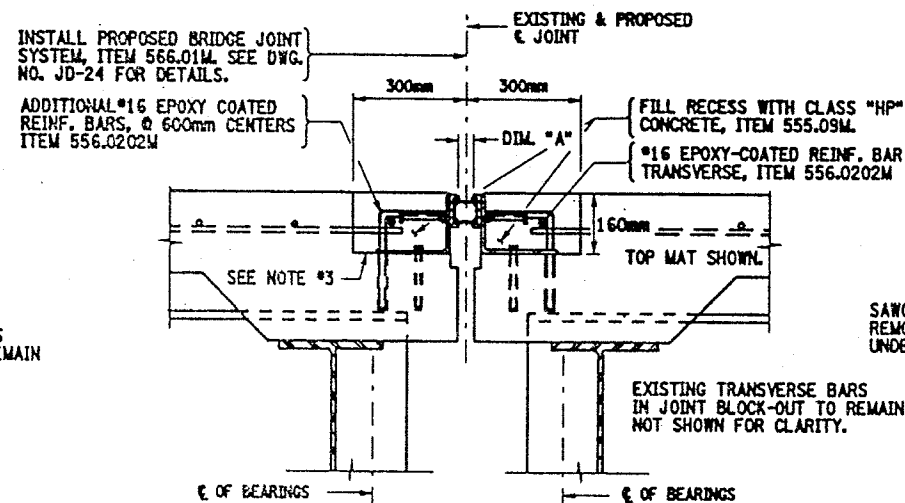
SECTION A-A  
EXISTING BEGINNING ABUTMENT JOINT  
BIN 1093571 - SOUTH ABUT.  
BIN 1093572 - SOUTH ABUT.



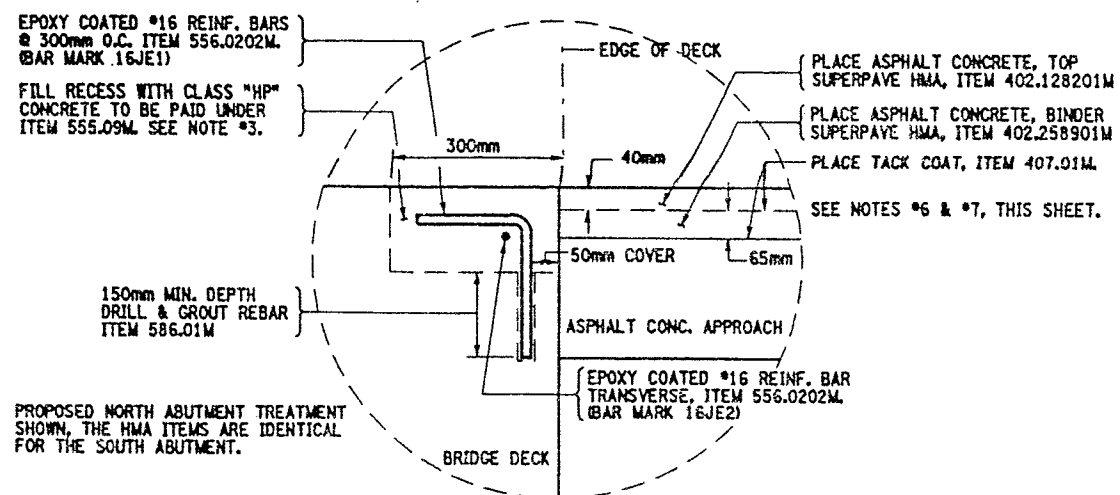
SECTION E-E  
EXISTING PIER JOINT TYPICAL  
BIN 1093571 - PIERS 6, 7, 8, 10, 11, 12, 13 & 14  
BIN 1093572 - PIERS 6, 7, 8, 9, 10, 11, 12, 13 & 14



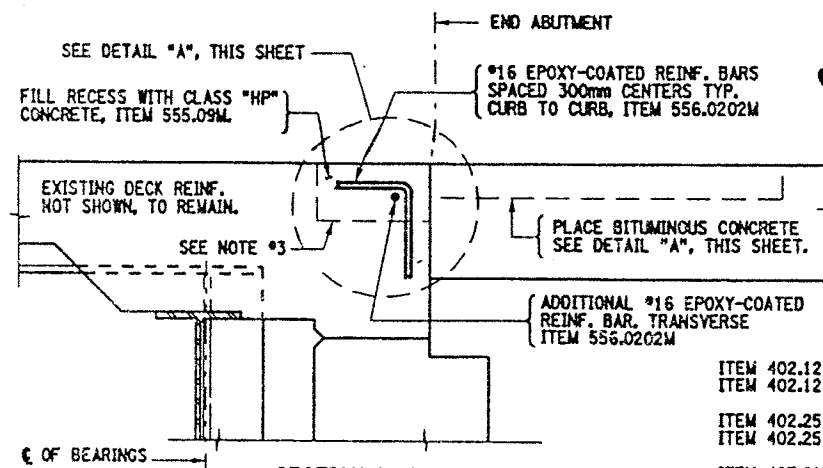
SECTION B-B  
PROPOSED BEGINNING ABUTMENT JOINT  
BIN 1093571 - SOUTH ABUT.  
BIN 1093572 - SOUTH ABUT.  
NOT TO SCALE



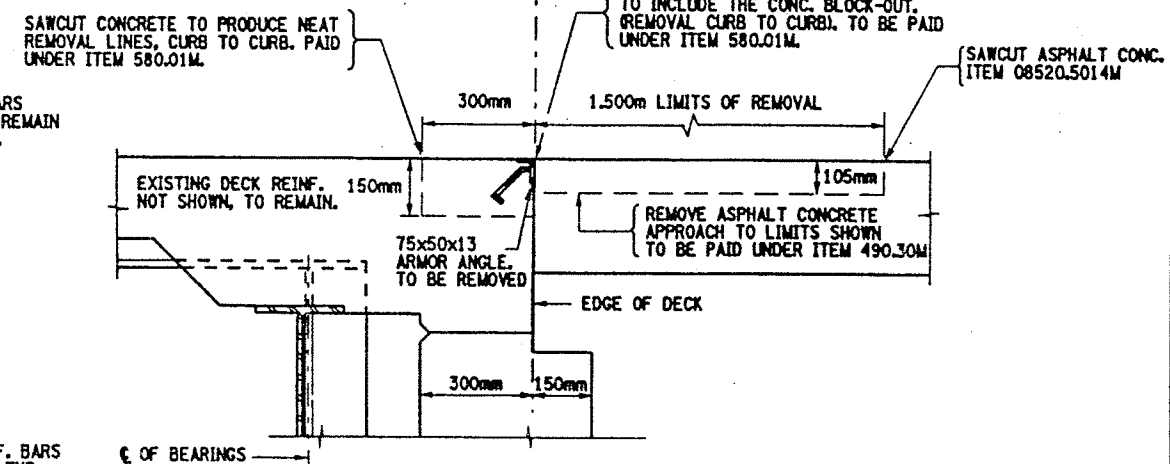
SECTION F-F  
PROPOSED PIER JOINT TYPICAL  
BIN 1093571 - PIERS 6, 7, 8, 10, 11, 12, 13 & 14  
BIN 1093572 - PIERS 6, 7, 8, 9, 10, 11, 12, 13 & 14  
NOT TO SCALE



DETAIL "A"  
NOT TO SCALE



SECTION H-H  
PROPOSED END ABUTMENT JOINT  
BIN 1093571 - NORTH ABUTMENT  
BIN 1093572 - NORTH ABUTMENT  
NOT TO SCALE



SECTION G-G  
EXISTING BEG. ABUTMENT JOINT  
BIN 1093571 - NORTH ABUTMENT  
BIN 1093572 - NORTH ABUTMENT  
NOT TO SCALE

ITEMS USED:

- ITEM 402.128201M - SUPERPAVE HMA F2, 12.5mm (QT)
- ITEM 402.128211M - PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.128201M (QD)
- ITEM 402.258901M - SUPERPAVE HMA F9, 25.0mm (QT)
- ITEM 402.258911M - PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.258901M (QD)
- ITEM 407.01M - TACK COAT (Q)
- ITEM 490.30M - MISC. COLD MILL OF BITUMINOUS CONC. (SM)
- ITEM 08520.5014M - SAWCUTTING BIT. CONC. (Q)
- ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CND)
- ITEM 556.0202M - EPOXY-COATED BAR REINF. FOR STRUCT. (αQ)
- ITEM 566.01M - WOOD. EXP. JOINT SYSTEM ONE-CELL (QD)
- ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CND)
- ITEM 586.01M - DRILL & GROUT REINF. BARS (QMD)

NOTES:

- REMOVAL OF THE EXISTING BRIDGE JOINT SYSTEM TO LIMITS SHOWN OR AS DIRECTED BY ENGINEER. REMOVAL SHALL INCLUDE ANY ARMORING DECK ANGLE AND ANY ADDITIONAL REBAR WHICH IS WELDED TO THE SEGMENT ANGLE AND THE ORIGINAL REINFORCEMENT. COST TO BE INCLUDED IN PRICE BID FOR ITEM 580.01M.
- REMOVAL OF A PORTION OF THE BRIDGE DECK MAY BE NECESSARY TO ALLOW FOR EXPANSION OF BRIDGE. AOB. SEE SECTION VIEW ON DWG. NO. JD-24. COST TO BE INCLUDED IN PRICE BID FOR ITEM 580.01M.
- RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACES AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE FOR 12 HOURS. NOTE, THE USE OF MATERIAL SPECIF. 105-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, (PROJECT PROPOSAL).
- ACTUAL BRIDGE JOINT BLOCK-OUT DIMENSIONS MAY VARY. REMOVAL LIMITS SHALL BE TO EXISTING BLOCK-OUT LOCATIONS, OR AS DIRECTED BY THE ENGINEER.
- PROPOSED PARTIAL PLAN VIEWS, SEE DWG. NO. JD-53 & JD-54.
- ALL SURFACES OF HMA SHALL BE CLEANED AND TACK-COATED PRIOR TO HMA PLACEMENT. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 407.01M.
- ANY USE OF SUPERPAVE HMA ITEMS SHALL INCLUDE THE APPROPRIATE PLANT PRODUCTION QUALITY ADJUSTMENT ITEMS.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 NB & SB  
OVER  
CSX RAILROAD YARD  
BRIDGE JOINT DETAILS

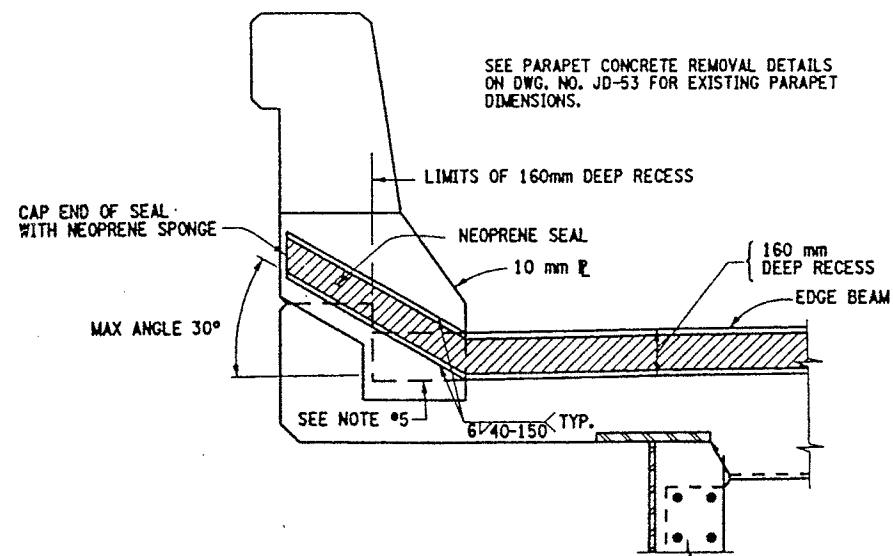


STATE OF NEW YORK  
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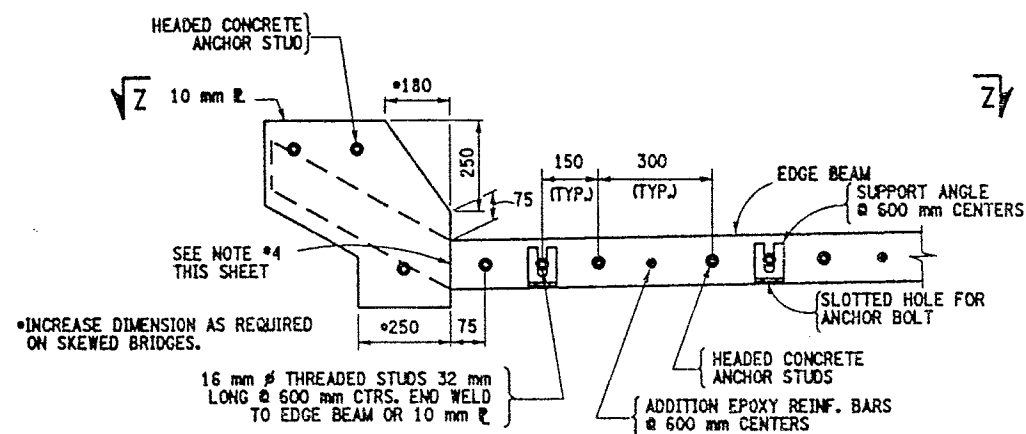
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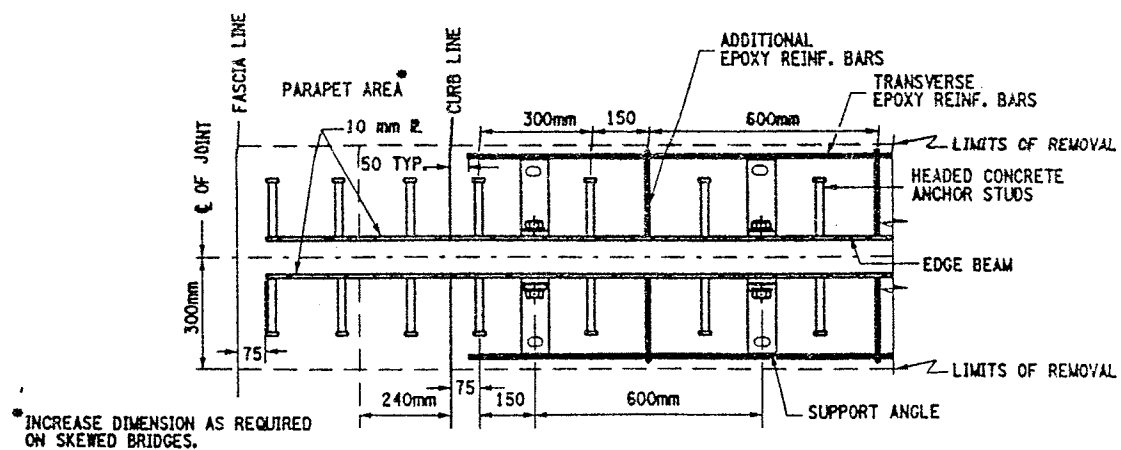
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DRAFTED BY  
ESTIMATED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



PROPOSED SEAL PLACEMENT TYPICAL  
SECTION C-C (CONCRETE TRAFFIC BARRIER)  
NOT TO SCALE

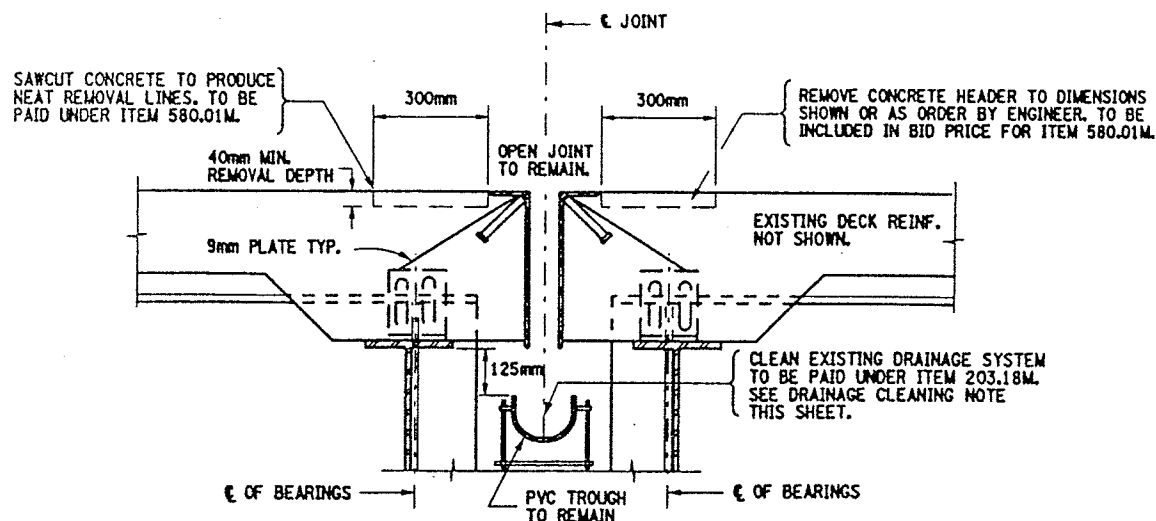


PROPOSED STEEL PLATE TYPICAL  
SECTION D-D (CONCRETE TRAFFIC BARRIER)  
(ONLY THE STEEL SHOWN)  
NOT TO SCALE



PLAN VIEW OF STEEL SECTION Z-Z  
TYPICAL SPACING FOR SINGLE CELL

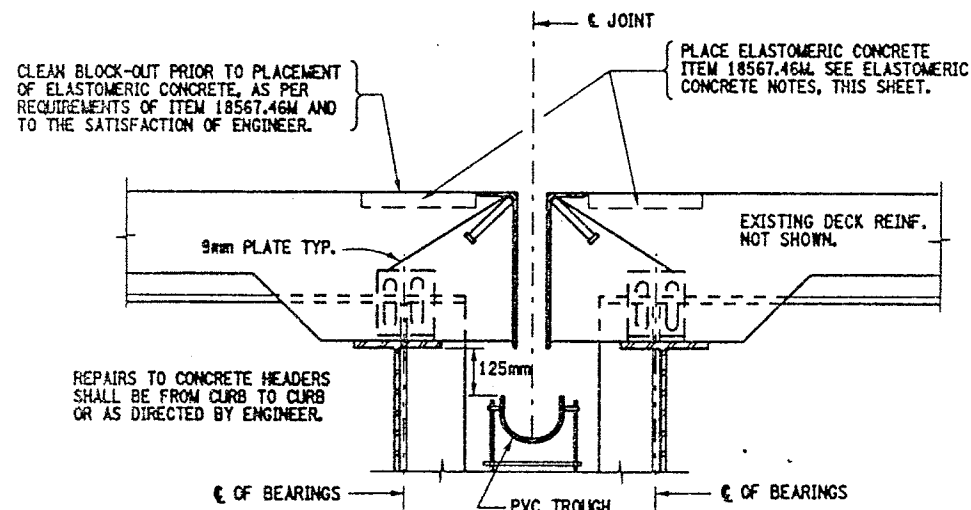
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EXISTING OPEN JOINT AT PIERS  
(REPAIRS TO OPEN JOINT HEADERS)

BIN 1093571 - PIERS 1, 2, & 9  
BIN 1093572 - PIERS 1 & 2

NOT TO SCALE



PROPOSED OPEN JOINT AT PIERS  
(REPAIRS TO OPEN JOINT HEADERS)

BIN 1093571 - PIERS 1, 2, & 9  
BIN 1093572 - PIERS 1 & 2

NOT TO SCALE

#### ITEMS USED:

ITEM 203.18M - CLEAN CLOSED DRAINAGE SYSTEMS (M)  
ITEM 18567.46M - ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS (M)  
ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CM)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	420	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

#### NOTES:

- ALL NOTES & DETAILS ON DWG. NO. JD-24 SHALL APPLY.
- REFER TO DWG. NO. JD-53 & JD-54 FOR PROPOSED PARTIAL PLAN VIEWS.
- FOR CALCULATION OF "J" DIMENSION REFER TO DWG. NO. JD-24.
- ALL WELDS SHALL BE GROUND SMOOTH TO THE SATISFACTION OF THE ENGINEER, ON SEAL CONTACT SIDE OF EDGE BEAM.
- RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACES AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE FOR 12 HOURS. NOTE, THE USE OF MATERIAL SPECIF. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED. (PROJECT PROPOSAL).

#### CLEAN DRAINAGE SYSTEM NOTE:

THE FOLLOWING CLOSED DRAINAGE SYSTEMS SHALL BE CLEANED UNDER THIS CONTRACT.

BIN 1093571 - PIERS 1, 2, 3, 4, 5, & 9  
BIN 1093572 - PIERS 1, 2, 3, 4, 5 & 6

NOTE, AT PIER #6 THE TYPE OF BRIDGE JOINT IS AN ARMORED JOINT WITH COMPRESSION SEAL. THE DOWNSPOUTS ARE CONNECTED TO THE BRIDGE SCUPPERS.

THE CLEANING OF THE EXISTING DRAINAGE SYSTEM (ITEM 203.18M) SHALL BE FROM HOPPER (FASCIA GIRDER) TO HOPPER (FASCIA GIRDER) AND SHALL INCLUDE THE PVC TROUGH AND THE ENTIRE DOWNSPOUT SYSTEM (DIA. OF DOWNSPOUTS VARY) FROM HOPPERS TO OUTLET. REFER TO DWG. NO. D017-1 THRU DWG. NO. D017-4 FOR DRAINAGE DETAILS AND PROPOSED MODIFICATIONS TO PIER DOWNSPOUTS.

FOR ESTIMATING THE QUANTITY FOR ITEM 203.18M THE FOLLOWING INFORMATION IS ASSUMED:

BIN 1093571 - PIERS 1, 2, 3, 4, 5, & 9  
(256 METERS TOTAL)

BIN 1093572 - PIERS 1, 2, 3, 4, 5 & 6  
(269 METERS TOTAL)

CONTRACTOR SHALL TAKE CARE WHEN PERFORMING CLEANING OPERATION NOT TO DAMAGE THE EXISTING DRAINAGE SYSTEM. ANY DAMAGE CAUSED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DEEMED NECESSARY BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

#### ELASTOMERIC CONCRETE NOTE:

- AN EXPERIENCED TECHNICAL REPRESENTATIVE EMPLOYED BY THE MANUFACTURER OF THE ELASTOMERIC CONCRETE SHALL BE PRESENT DURING ALL PHASES OF SUBSTRATE PREPARATION AND MATERIAL PLACEMENT.
- THE WATERTIGHT INTEGRITY TEST SHALL NOT BE REQUIRED FOR THE OPEN JOINT HEADER REPAIRS, WHERE ELASTOMERIC CONCRETE (ITEM 18567.46M) IS USED, FOR THESE TWO STRUCTURES ONLY.
- THE REMOVAL DIMENSIONS MAY BE ADJUSTED TO ENSURE THAT ALL DETERIORATED CONCRETE ADJACENT TO THE JOINT AREA IS ENCOMPASS. ABOVE.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 NB & SB OVER CSX RAILROAD YARD BRIDGE JOINT DETAILS	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AJ.JA1	REGION 3
DATE 10/02	DRAWING NO. JD-56



# Asbestos Sampling Survey

Location:

BIN 1-09357-1

Interstate Route 481 South Bound over Conrail

Prepared for:

New York State

Department of Transportation

PIN 3804.00.101

LaBella Project No. 97132

May, 1998



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I. Project Summary .....	1
II. Site Description .....	1
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Certification .....	2

Figures and Table



## **I. Project Summary**

In accordance with conditions of Term Agreement D010010, LaBella Associates, P.C. conducted an asbestos sampling survey of the Interstate Route 481 South Bound Bridge over Conrail. Based on laboratory analyses of bulk samples collected, the following materials were determined to contain asbestos:

### **BIN 1-09357-1 Interstate Route 481 South Bound over Conrail**

<b>Type of Material</b>	<b>Estimated Amount</b>
Sheet Packing	7 Square Meters
Caulking Compound	37.4 Linear Meters

## **II. Site Description**

The Site is located in Onondaga County, New York. For the purpose of this report, the Site consists of the Interstate Route 481 South Bound Bridge over Conrail (See attached FIGURE 1 - Site Location Map).

## **III. Inspection Procedures**

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 3 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints which might affect the removal of the ACM were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by EMSL Analytical, Inc. or New York Testing Laboratories, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. A drawing of the structure at the Site was created, in order to show sample locations and the approximate locations and amounts of confirmed ACM observed in accessible locations.



Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Actual sample locations are shown in the attached FIGURE 2. Results of bulk sample analyses are tabulated in the attached TABLE.

## **IV. Results**

### **BIN 1-09357-1 Interstate Route 481 South Bound over Conrail**

#### **Sheet Packing**

Asbestos-containing sheet packing is located between the tops of the abutments and the deck slab at both ends of the bridge. Most of this material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations.

It is estimated that the total amount of this asbestos-containing sheet packing material on the bridge is approximately 7 square meters. This estimate is based on field measurements taken at the time of the site visit.

The approximate locations of this asbestos-containing sheet packing are shown in FIGURE 2.

#### **Caulking Compound**

Asbestos-containing caulking compound is located around some of the guide rail base plates on both parapets on the bridge. It is estimated that the total amount of this caulking compound is approximately 37.4 linear meters. This estimate is based on field measurements taken at the time of the site visit.

The approximate locations of this material are shown in the attached FIGURE 2. Analytical results of bulk samples collected are summarized in the attached TABLE.

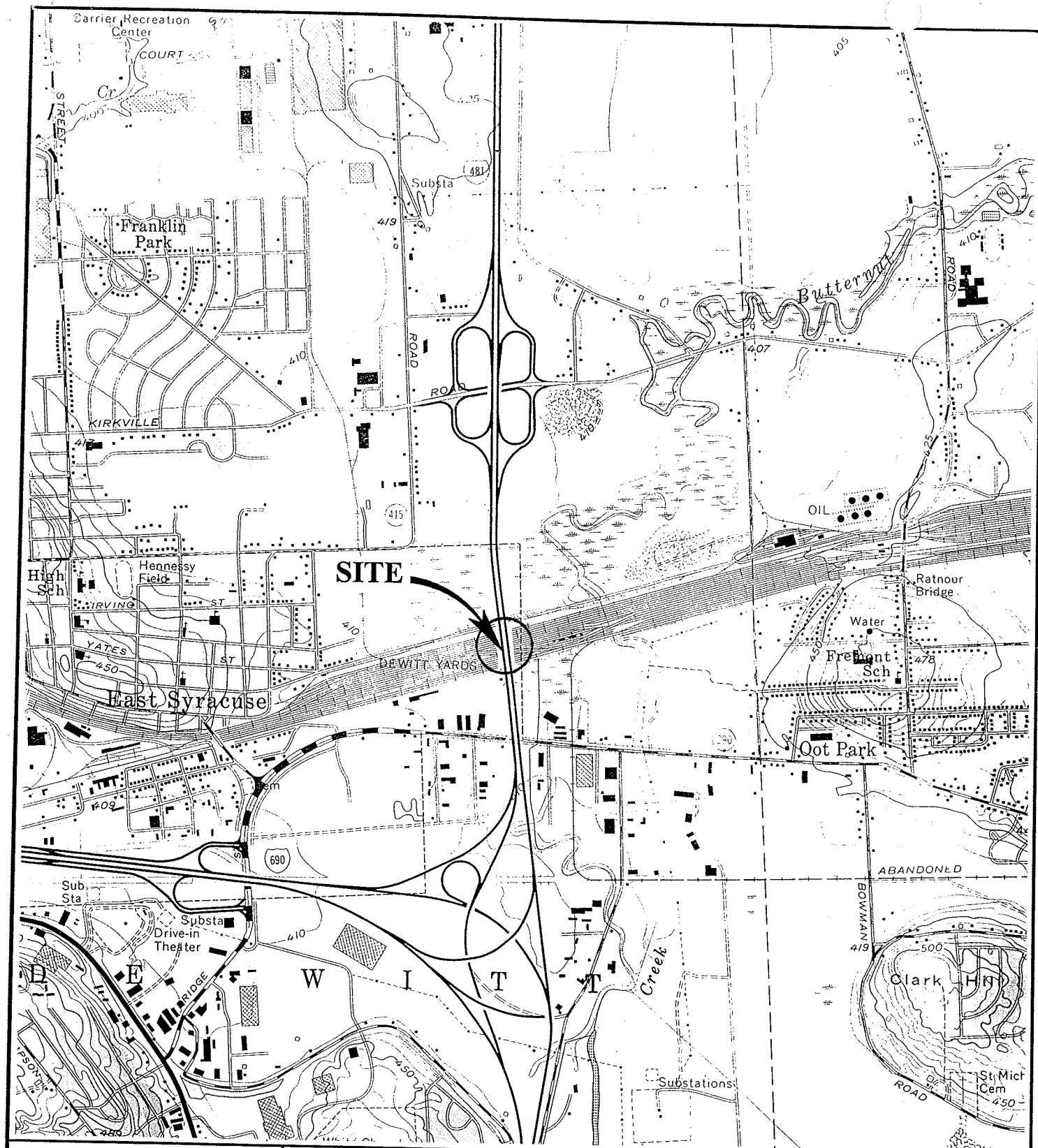
## **Certification**

LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.



# Figures & Table





SCALE: 1" = 2000'

**FIGURE 1**  
**Site Location Map**  
**I-481 SOUTH BOUND**  
**OVER CONRAIL**

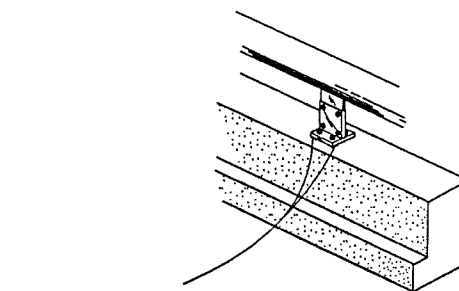
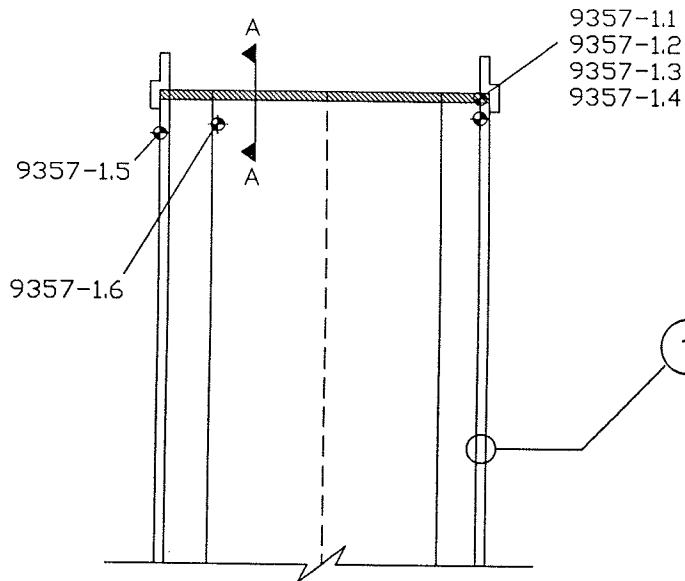
**BIN 1-09357-1**

**ABELLA**

PROJECT NO. 97132

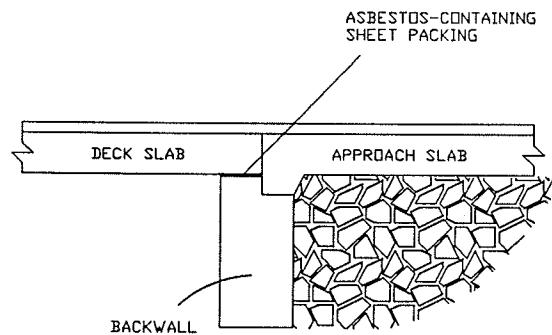
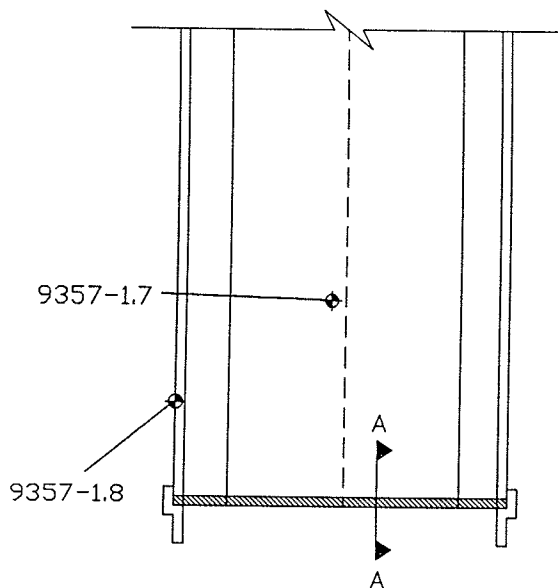


# NORTH ABUTMENT



1  
TYPICAL RAILING/  
PARAPET DETAIL  
SPOTTY APPLICATION OF  
ASBESTOS-CONTAINING  
CAULKING  
COMPOUND AROUND SOME  
GUIDE RAIL BASE PLATES

# I-481 SOUTH BOUND BIN 1-09357-1



SECTION A-A

# LEGEND

◆ 9357-1.1 SAMPLE LOCATION

▨ ASBESTOS-CONTAINING  
SHEET PACKING



PROJECT TITLE: ASBESTOS SAMPLING SURVEY  
16 BRIDGES,  
ONONDAGA COUNTY, NEW YORK

PROJECT NO. 97132

PIN 3804.00.101

FIGURE 2: I-481 SOUTH BOUND  
OVER CONRAIL  
BIN 1-09357-1  
SAMPLE LOCATIONS AND CONFIRMED ACM

NOT TO SCALE

DATE: MAY, 1998



# Bulk Sample Results Table

Asbestos Sampling Survey  
 BIN 1-09357-1  
 Interstate Route 481 South Bound over Conrail  
 Onondaga County, New York  
 LaBella Project # 97132  
 PIN 3804.00.101

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material	Specification Item No.
9357-1.1	North End of Bridge Between Deck & Abutment	Sheet Packing	40 % Chrysotile	7 Square Meters	15202.0627 (M)
9357-1.2	North End of Bridge Between Deck & Wing Wall	Joint Filler	None Detected	N/A	N/A
9357-1.3	North End of Bridge Beneath Bearing	Bearing Pad	None Detected	N/A	N/A
9357-1.4	North End of Bridge on Abutment	Masonry Coating	None Detected	N/A	N/A
9357-1.5	North End of Bridge, on West I-Beam	Green Paint	None Detected	N/A	N/A
9357-1.6	North End of Bridge, on Inside I-Beam	Green Paint	None Detected	N/A	N/A
9357-1.7	South End of Bridge, on Ground Under 2 <sup>nd</sup> Span	Green Paint	None Detected	N/A	N/A
9357-1.8	South End of Bridge, at Base of Guide Rail	Gray Caulk	4 % Chrysotile	37.4 Linear Meters	15202.0629 (M)



## **BIN 1093572**

I-81 (Former I-481) NB over Conrail Railroad



BIN 1093572

Location: I-481 NB over CSX Railroad Yard

NYSDOT D031085 PIN 3501.60 - I-81 Viaduct Replacement or New Urban Arterial

City of Syracuse, Onondaga County

Bridge Asbestos Assessment Results

Asbestos containing materials have been identified on this bridge.

ITEM	DESCRIPTION	QUANTITY
210.481201	Removal and Disposal of Miscellaneous ACM (BV14) – Sheet Packing	76 SQ FT
210.3413	Removal and Disposal of Caulking ACM (BV14) – (Found around the guiderail base plates. Material was to have been removed during the 2002 rehabilitation project. Remaining quantity is unknown.)	LUMP SUM
210.481202	Removal and Disposal of Miscellaneous ACM (BV14) – Bituminous Joint Filler (Assumed to be ACM based on record plan review.)	47 SQ FT

The following summarizes the results of the most recent asbestos survey and record plan review.

Watts Inspection Findings (February/March 2014)

A bridge inspection was completed on 2/10/2014 and 3/19/2014 and the following suspect ACMs were identified and sampled:

- Bearing pad
- **Sheet packing**
- Green bridge paint
- Off-white/Grey masonry paint
- Vinyl drain pipe
- Beige paint on deck sidewalls

Laboratory analysis indicated that the sheet packing sampled by Watts was confirmed positive for asbestos. The other listed materials were not positive for asbestos, per laboratory analytical results. Watts inspected the guiderail base plates but could not find any guiderail base plate caulk during our inspection. The Design Builder should be aware and revisit the associated location(s) during the work.



### Review of Historic Plans and Previous Asbestos Survey Information

- The record plans (FISH 70-7, D251438, D259214) were reviewed in support of the field survey. The following suspect ACMs were identified:
  - Compressed asbestos sheet packing
  - Bituminous joint filler
  - Caulking compound (Indicates that this material [150 linear feet] is to be removed based on the reviewed rehabilitation plans dated 2002. Small amounts may still remain under some railing base plates).
- A previous asbestos survey completed by LaBella in 1998 was reviewed in support of this project.
  - Bridge paint
  - **Compressed asbestos sheet packing**
  - **Caulking compound (Guide rail base plates)**
  - Joint filler
  - Masonry coating
  - Bearing pad

Laboratory analysis indicated that the sheet packing and guiderail caulk was confirmed positive for asbestos.





# Watts Architecture & Engineering

## BRIDGE ASBESTOS FIELD INSPECTION FORM

BIN Number/Location: 1093572 481 N13 over RR Yard

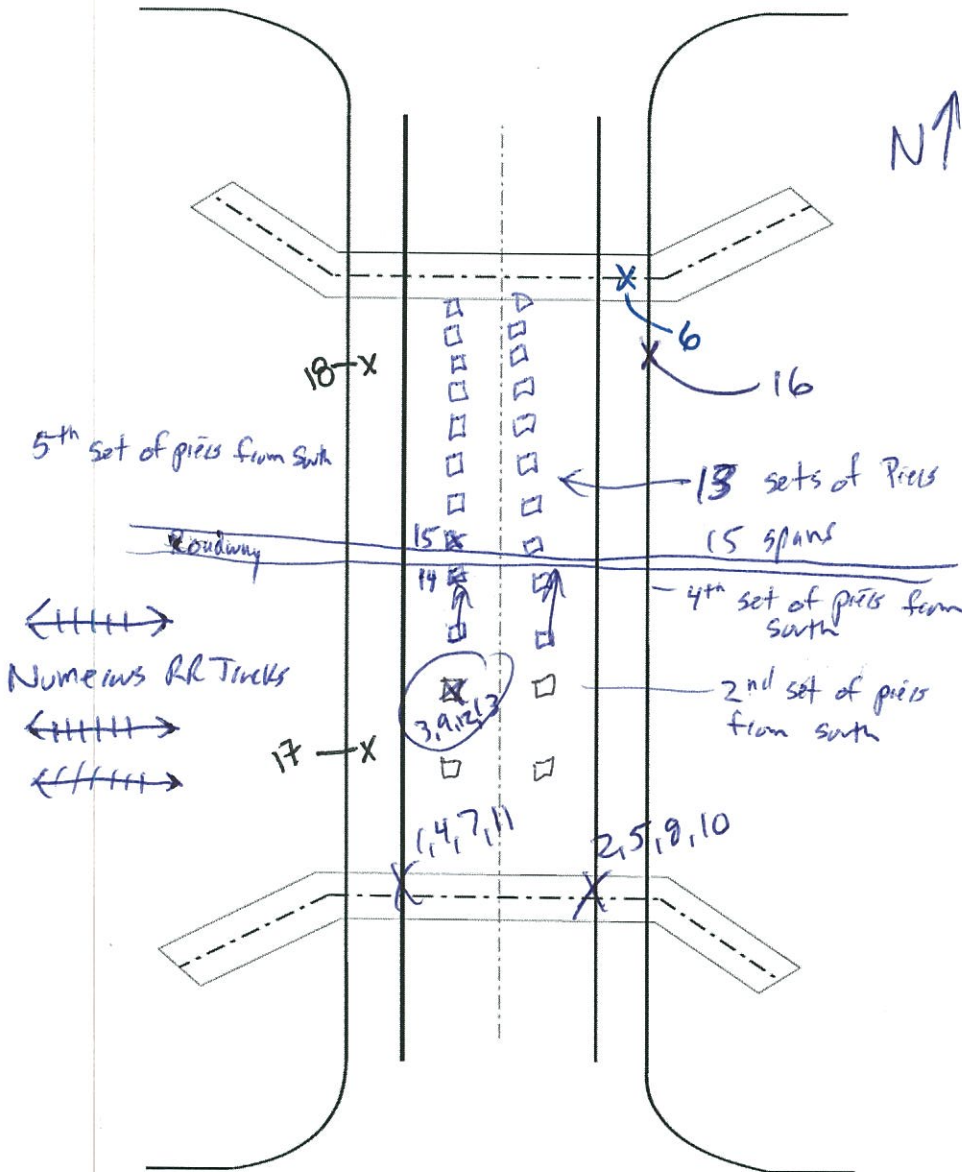
Project Name: : I-81 Viaduct Replacement or New Urban Arterial

Inspector(s): S. Matthews

Inspection Date: 3-19-14  
2-10-14

PIN Number: PIN: 3501.60, D031085

Watts Project No: 13092



Field Inspection Checklist			
Item	Investigated	Present	Sampled
Girder Paint	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Truss Paint	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Abutment Coating <i>Paint</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Abutment Caulk	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Abut. Exp. Jt. Filler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headwall Sheet Packing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bearing Pad	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Transite Pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pipe Coating/Wtr. Proof	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scupper Wtr. Proof	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dum Dum Paint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deck Caulk	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Deck Exp. Jt. Filler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Approach Sheet Packing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Railing Paint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Railing Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sidewalk Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lighting Pole Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Masonry Castings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Miscellaneous Tar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other <i>Vinyl pipe</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE LOCATION PLAN VIEW - N.T.S.

Notes: Deck has rubber expansion joints, no other caulks identified.  
Abutments have sheet packing.  
Samples girder paint, masonry paint, and bearing pads.  
Bridge inspected over numerous days.



**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

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<http://www.EMSL.com>[buffalolab@emsl.com](mailto:buffalolab@emsl.com)

EMSL Order: 141401420

CustomerID: WATT50A

CustomerPO:

ProjectID:

Attn: **Scott Matthews**  
**Watts Architecture & Engineering**  
**2610 Salina Street**  
**Syracuse, NY 13205**

Phone: (315) 443-8611  
 Fax: (315) 443-8605  
 Received: 04/04/14 12:00 PM  
 Analysis Date: 4/11/2014  
 Collected: 2/10/2014

Project: **13092 / I-81 Viaduct Replacement or New Urban Renewal, BIN 1093572 (481 NB Over CSX RR Yard)**

**Test Report:Asbestos Analysis of Bulk Material**

Test	Analyzed Date	Color	Non Asbestos		Asbestos
			Fibrous	Non-Fibrous	
<b>Sample ID</b> 1093572-1 141401420-0001		<b>Description</b> bearing pad <b>Homogeneity</b> Heterogeneous			
<b>PLM NYS 198.1 Friable</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>	4/8/2014	Brown /Green			<b>Inconclusive: None Detected</b>
<b>TEM NYS 198.4 NOB</b>	4/11/2014	Brown /Green			<b>None Detected</b>
<b>Sample ID</b> 1093572-2 141401420-0002		<b>Description</b> bearing pad <b>Homogeneity</b> Homogeneous			
<b>PLM NYS 198.1 Friable</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>	4/8/2014	Brown			<b>Inconclusive: None Detected</b>
<b>TEM NYS 198.4 NOB</b>	4/11/2014	Brown			<b>None Detected</b>
<b>Sample ID</b> 1093572-3 141401420-0003		<b>Description</b> bearing pad <b>Homogeneity</b> Homogeneous			
<b>PLM NYS 198.1 Friable</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>	4/8/2014	Brown			<b>Inconclusive: None Detected</b>
<b>TEM NYS 198.4 NOB</b>	4/11/2014	Brown			<b>None Detected</b>
<b>Sample ID</b> 1093572-4 141401420-0004		<b>Description</b> sheet packing <b>Homogeneity</b> Homogeneous			
<b>PLM NYS 198.1 Friable</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>	4/8/2014	Black			<b>9.9% Chrysotile</b> <b>9.9% Total</b>
<b>TEM NYS 198.4 NOB</b>	4/11/2014				<b>Not Analyzed</b>
<b>Sample ID</b> 1093572-5 141401420-0005		<b>Description</b> sheet packing <b>Homogeneity</b>			
<b>PLM NYS 198.1 Friable</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>	4/8/2014				<b>Positive Stop (Not Analyzed)</b>
<b>TEM NYS 198.4 NOB</b>	4/11/2014				<b>Not Analyzed</b>



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EMSL Order: 141401420

CustomerID: WATT50A

CustomerPO:

ProjectID:

**Test Report:Asbestos Analysis of Bulk Material**

		Non Asbestos			Asbestos
Test		Color	Fibrous	Non-Fibrous	
<b>Sample ID</b>	1093572-6	<b>Description</b>	sheet packing		
	141401420-0006	<b>Homogeneity</b>			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	4/8/2014				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	4/11/2014				Not Analyzed
<b>Sample ID</b>	1093572-7	<b>Description</b>	green girder paint		
	141401420-0007	<b>Homogeneity</b>	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	4/8/2014	Green			Inconclusive: None Detected
TEM NYS 198.4 NOB	4/11/2014	Green			None Detected
<b>Sample ID</b>	1093572-8	<b>Description</b>	green girder paint		
	141401420-0008	<b>Homogeneity</b>	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	4/8/2014	Green			Inconclusive: None Detected
TEM NYS 198.4 NOB	4/11/2014	Green			None Detected
<b>Sample ID</b>	1093572-9	<b>Description</b>	green girder paint		
	141401420-0009	<b>Homogeneity</b>	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	4/8/2014	Green			Inconclusive: None Detected
TEM NYS 198.4 NOB	4/11/2014	Green			None Detected
<b>Sample ID</b>	1093572-10	<b>Description</b>	off-white/grey masonry paint		
	141401420-0010	<b>Homogeneity</b>	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	4/8/2014	Gray /White			Inconclusive: None Detected
TEM NYS 198.4 NOB	4/11/2014	Gray /White			None Detected
<b>Sample ID</b>	1093572-11	<b>Description</b>	off-white/grey masonry paint		
	141401420-0011	<b>Homogeneity</b>	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	4/8/2014	Gray /White			Inconclusive: None Detected
TEM NYS 198.4 NOB	4/11/2014	Gray /White			None Detected



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EMSL Order: 141401420

CustomerID: WATT50A

CustomerPO:

ProjectID:

**Test Report:Asbestos Analysis of Bulk Material**

		Non Asbestos		
Test		Color	Fibrous	Asbestos
<b>Sample ID</b> 1093572-12 141401420-0012	<b>Description</b> off-white/grey masonry paint <b>Homogeneity</b> Homogeneous		Non-Fibrous	
<b>PLM NYS 198.1 Friable</b>				<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>				<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b> 4/8/2014	Gray /White			<b>Inconclusive: None Detected</b>
<b>TEM NYS 198.4 NOB</b> 4/11/2014	Gray /White			<b>None Detected</b>
<b>Sample ID</b> 1093572-13 141401420-0013	<b>Description</b> vinyl drain pipe <b>Homogeneity</b>			
<b>PLM NYS 198.1 Friable</b>				<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>				<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b> 4/8/2014				<b>Insufficient Residue</b>
Final Residue <1% of original subsample – Non-ACM				
<b>TEM NYS 198.4 NOB</b> 4/11/2014				<b>Insufficient Residue</b>
<b>Sample ID</b> 1093572-14 141401420-0014	<b>Description</b> vinyl drain pipe <b>Homogeneity</b>			
<b>PLM NYS 198.1 Friable</b>				<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>				<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b> 4/8/2014				<b>Insufficient Residue</b>
Final Residue <1% of original subsample – Non-ACM				
<b>TEM NYS 198.4 NOB</b> 4/11/2014				<b>Insufficient Residue</b>
<b>Sample ID</b> 1093572-15 141401420-0015	<b>Description</b> vinyl drain pipe <b>Homogeneity</b> Homogeneous			
<b>PLM NYS 198.1 Friable</b>				<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>				<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b> 4/8/2014	Brown			<b>Inconclusive: None Detected</b>
<b>TEM NYS 198.4 NOB</b> 4/11/2014	Brown			<b>None Detected</b>
<b>Sample ID</b> 1093572-16 141401420-0016	<b>Description</b> beige paint on deck sidewalls <b>Homogeneity</b> Homogeneous			
<b>PLM NYS 198.1 Friable</b>				<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>				<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b> 4/8/2014	Beige			<b>Inconclusive: None Detected</b>
<b>TEM NYS 198.4 NOB</b> 4/11/2014	Beige			<b>None Detected</b>
<b>Sample ID</b> 1093572-17 141401420-0017	<b>Description</b> beige paint on deck sidewalls <b>Homogeneity</b> Homogeneous			
<b>PLM NYS 198.1 Friable</b>				<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>				<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b> 4/8/2014	Beige			<b>Inconclusive: None Detected</b>
<b>TEM NYS 198.4 NOB</b> 4/11/2014	Beige			<b>None Detected</b>



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<http://www.EMSL.com>[buffalolab@emsl.com](mailto:buffalolab@emsl.com)

EMSL Order: 141401420

CustomerID: WATT50A

CustomerPO:

ProjectID:

**Test Report:Asbestos Analysis of Bulk Material**

		Non Asbestos		
Test		Color	Fibrous	Asbestos
Sample ID 1093572-18 141401420-0018	Description	beige paint on deck sidewalls		
	Homogeneity	Homogeneous		
PLM NYS 198.1 Friable				Not Analyzed
PLM NYS 198.6 VCM				Not Analyzed
PLM NYS 198.6 NOB	4/8/2014	Beige		Inconclusive: None Detected
TEM NYS 198.4 NOB	4/11/2014	Beige		None Detected

Analyst(s)

Rachel Giese

Rhonda McGee

Rhonda McGee, Laboratory Manager  
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.  
All samples examined for the presence of vermiculite when analyzed via NYS 198.1.

-NYS Guidelines for Vermiculite containing samples are available at [http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance\\_Rev070913.pdf](http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf)

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606



**WATTS ARCHITECTURE & ENGINEERING  
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY**

41401420

Page: 1 of 2  
Date: 2/10/14

Client: Parsons Engineering  
Project: I-81 Viaduct Replacement or New Urban Arterial  
Building / Location: BIN 1093572 (481 NB over CSX RR Yard)  
Contact: Scott Matthews at (315) 443-8611  
Email Preliminary Results to: smatthews@watts-ae.com  
Mail Invoice to: Accounts Payable  
Watts Architecture & Engineering  
95 Perry Street, Buffalo, NY 14203

Watts Project No.: 13092  
Turnaround Requested: 3 Hr. 48 Hr.  
Analysis Requested: 6 Hr. 72 Hr.  
PLM X TEM X 12 Hr. X 5 Day  
24 Hr. 6-10 Day  
Mail Report to: Scott Matthews  
Watts Architecture & Engineering  
2610 S Salina Street, Syracuse, NY 13210  
*asper Scott*  
*Week*

Sample Number	Material Description	Sample Location	Laboratory Results	
			PLM	TEM
1093572- 1	Bearing pad	South end / west		
2	Bearing pad	South end / west		
3	Bearing pad	2nd pier from south end		
4	Sheet packing	South end / west		
5	Sheet packing	South end / west		
6	Sheet packing	North end / east		
7	Green girder paint	South end / west		
8	Green girder paint	South end / west		
9	Green girder paint	2nd pier from south end		
10	Off-white/grey masonry paint	South end abutment wall / east		
11	Off-white/grey masonry paint	South end abutment wall / west		
12	Off-white/grey masonry paint	2nd pier from south end		

Sampled By: Scott Matthews *[Signature]* Date: 3/19/2014 Received By:                      Date: Feb 12pm  
Relinquished By: Scott Matthews to FedEx *[Signature]* Date: 4/3/2014 Received By:                      Date:                       
Comments: Positive Stop Anywhere in Series

**RECEIVED**  
**APR 04 2014**

BY: *[Signature]*



**WATTS ARCHITECTURE & ENGINEERING  
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY**

141401420

Page: 2 of 2  
Date: 2/10/14

Client: Parsons Engineering  
Project: I-81 Viaduct Replacement or New Urban Arterial  
Building / Location: BIN 1093572 (481 NB over CSX RR Yard)  
Contact: Scott Matthews at (315) 443-8611  
Email Preliminary Results to: smatthews@watts-ae.com  
Mail Invoice to: Accounts Payable  
Watts Architecture & Engineering  
95 Perry Street, Buffalo, NY 14203

Watts Project No.: 13092  
Turnaround Requested: 3 Hr. 48 Hr.  
Analysis Requested: 6 Hr. 72 Hr.  
PLM X TEM X 12 Hr. X 5 Day  
24 Hr. 6-10 Day  
Mail Report to: Scott Matthews  
Watts Architecture & Engineering  
2610 S Salina Street, Syracuse, NY 13210

Sample Number	Material Description	Sample Location	Laboratory Results	
			PLM	TEM
1093572- 13	Vinyl drain pipe	2nd pier from south		
14	Vinyl drain pipe	4th pier from south		
15	Vinyl drain pipe	5th pier from south		
16	Beige paint on deck sidewalls	Northeast corner		
17	Beige paint on deck sidewalls	Southwest corner		
18	Beige paint on deck sidewalls	Northwest corner		

Sampled By: Scott Matthews Date: 3/19/2014 Received By: [Signature] Date: 12 pm  
Relinquished By: Scott Matthews to Fedex Date: 4/3/2014 Received By: [Signature] Date:    
Comments: Positive Stop Anywhere in Series

**RECEIVED**  
APR 04 2014



## **BIN 1093572 Inspection Photos**

I-81 (Former I-481) NB over Conrail Railroad



Photo 1



Photo 2





Photo 3



Photo 4





Photo 5



Photo 6





Photo 7



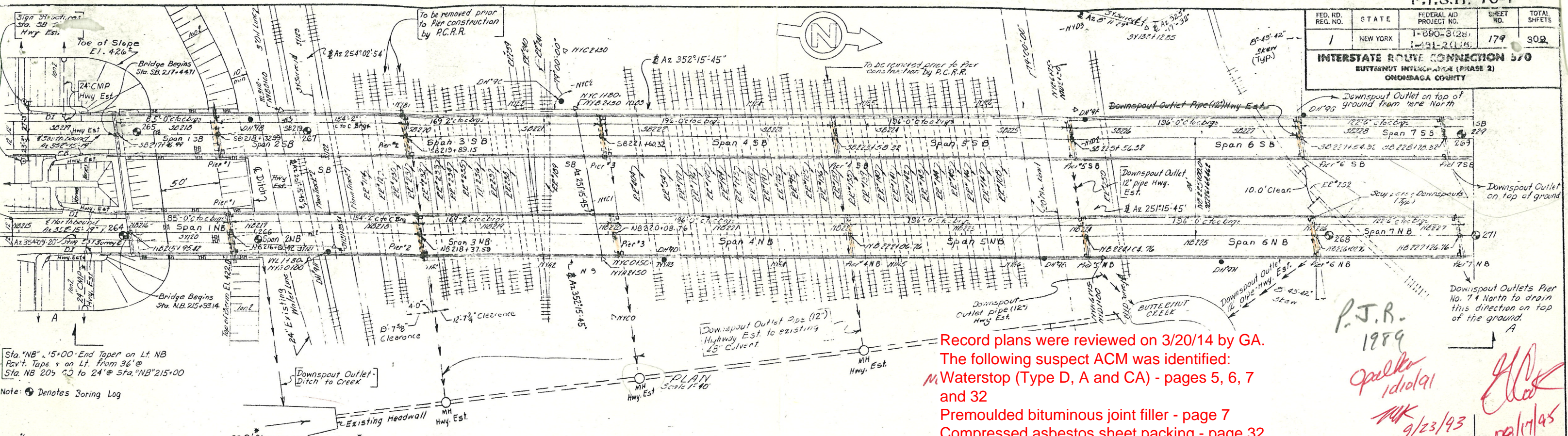
Photo 8





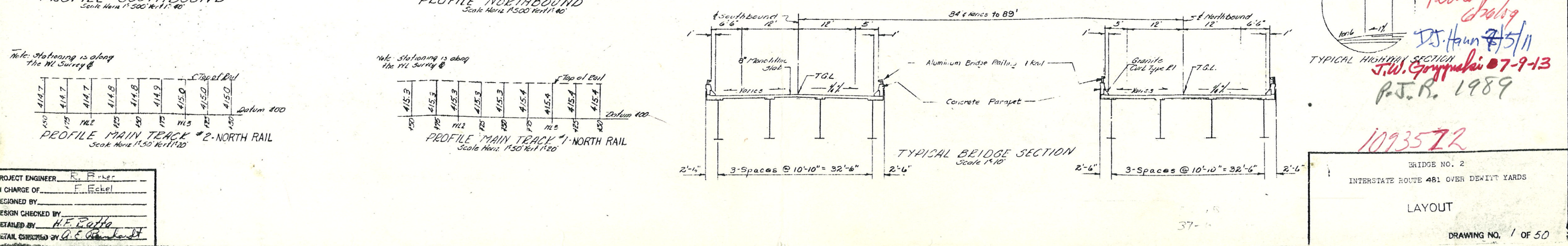
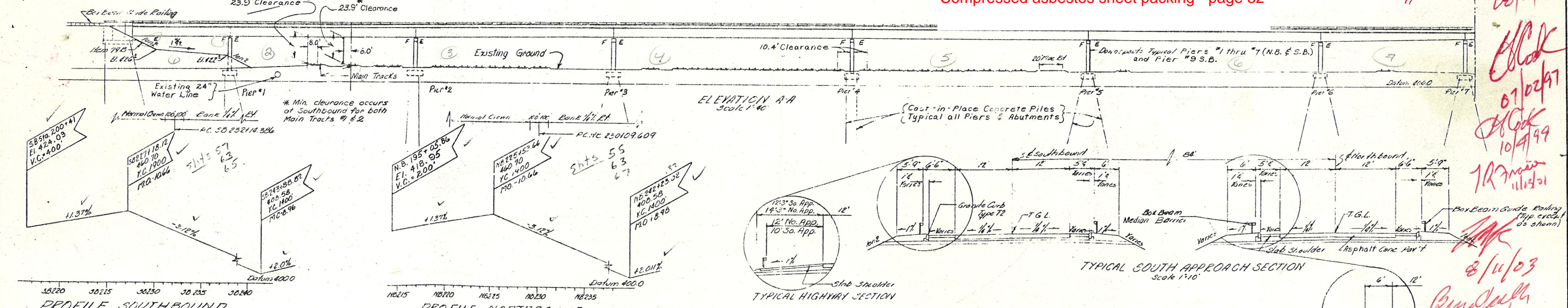
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-890-3(28) 1-891-2(115)	179	302

**INTERSTATE ROUTE CONNECTION 570**  
BUTTERNUT INTERCHANGE (PHASE 2)  
ONONDAGA COUNTY



Record plans were reviewed on 3/20/14 by GA.  
The following suspect ACM was identified:  
Waterstop (Type D, A and CA) - pages 5, 6, 7 and 32  
Premoulded bituminous joint filler - page 7  
Compressed asbestos sheet packing - page 32

P.J.R. 1989  
Speller 10/10/91  
MK 9/23/93  
08/17/95  
07/02/97  
10/4/99  
12/3/00





## GENERAL NOTES

- G1 - Design Specifications AASHO 1969 modified and current American Welding Society modified. The stresses assumed for design purposes conform to 1969 AASHO Specifications with the 28 day concrete stress ( $f'_c$ ) = 3000 psi minimum.
- L.L. HS20-44 or two 24,000 lb. axles spaced 41'-0" on centers.
- G2 - Material and Construction Specifications: Specifications of N.Y.S. Department of Public Works dated January 2, 1962 with current additions and modifications.
- G3 - The Contractor's attention is directed to the Special Notes for this structure which appear in the proposal. Particular attention should be given to the foundation note which briefly outlines the anticipated subsurface conditions at the site of the structure and which specifies certain requirements relative to construction.
- G4 - The cost of furnishing and placing water used for ~~adding and~~ selected granular fill will be paid for under Item 14 and 14A of the highway portion of the contract.
- G5 - Reinforcing bars shall be lapped a minimum of 24 diameters.
- G6 - The cost of all joint material will be included in the price bid for the various items of the contract.
- G7 - All concrete anchor studs which are attached to the various steel details shall meet the requirements listed in paragraph 5, Construction Details, of Item 25B-Stud Shear Connectors. Payment for furnishing and placing the concrete anchors will be included in the unit price bid for the item to which the anchors are attached.
- G8 - Due to the incompatibility of the caulking compound with the premoulded bituminous joint filler, a layer of an approved type of pressure-sensitive release tape shall be placed between these materials.

The contractor may elect to change the layout of diaphragms from that shown on the contract plans. Placement of the diaphragms parallel with the skew (in line, not staggered) will be permitted. The stiffener locations may be altered to accommodate the revised diaphragm layout, but the spacing of stiffeners shown on the plans shall not be exceeded. Diaphragm spacing shall not exceed 25 feet.

## CONCRETE ITEMS AND CEMENT

Description	Item No.	Type of Cement
All footings	20	2
Abutment pedestals, backwalls and wingwalls	20	2
Abutment headers and parapets	19	2
Pier columns, beams, pedestals, and crash walls	19	2
Monolithic slab	18MA	2
Parapet (Superstructure & Substructure)	19	2
Cast-in-Place Concrete Piles	95C	2

All concrete shall have entrained air in accordance with the specifications.

## SUPERSTRUCTURE NOTES

Sup 1 - After all superstructure steel has been erected, elevations shall be taken on the top of the steel at the centerline of web, at each centerline of bearing, center of the span and at other locations where theoretical bottom of the slab elevations are indicated on the plans.

The depth of haunch required to position the slab forms is obtained as follows. From the measured top of steel elevations subtract the deflections due to slab and superimposed dead load. Subtract this result from the listed bottom of slab elevation.

Sup 2 - All bearings are to be field welded to beams or girders.

Sup 3 - The Structural Slab on this structure shall be formed with permanent corrugated metal forms for concrete decks.

Sup 4 - All connection plates used in pairs shall be welded to the web and be placed paint tight against both flanges. This may be accomplished by cutting the stiffeners to fit or by cutting the stiffeners 1/8 inch short and then placing the stiffener tightly against the tension flange and welding the opposite end to the compression flange. Fitted stiffeners shall not be driven in place with sufficient force to distort the flange, web or stiffeners.

Sup 5 - All intermediate stiffeners and/or connection plates used singly on one side only or staggered on both sides shall be placed paint tight against the flange which is in tension under dead load and welded to the web and flange which is in compression.

Sup 6 - All bearing stiffeners shall be fillet welded to the web and top flange and groove welded or milled to bear to the bottom flange.

Sup 7 - All intermediate transverse stiffeners and connection plates shall be vertical unless otherwise approved by the Deputy Chief Engineer (Design).

Sup 8 - All bearing stiffeners and the ends of all girders shall be vertical.

Sup 9 - All anchor bolts shall be galvanized in accordance with the requirements of Material Specification M19.

Sup 10 - Structural steel members which are imbedded or in contact with cast or pneumatically projected concrete shall not be painted.

Sup 11 - Machine finished sliding surfaces in contact shall receive in the shop one coat of a hot mixture of white lead and tallow as provided for in the specifications under Part II, Section 3A, Painting. This shop coat of white lead and tallow shall be removed immediately prior to the assembly of the member in the field. All other machine finished surfaces shall be given one shop coat of paint.

Sup 12 - Wherever Modified A441 Steel is used, the flux for submerged arc welding shall be dried in oven at 500°F. to 550°F. for at least two hours and stored in ovens held at 250°F. or more. Flux not used within 4 hours after removal from a drying or storage oven shall be redried before use.

Minimum preheat and Interpass Temperatures shall be as follows:

Thickness of Thickest Part at Point of Welding in Inches	Temperature
To 3/4, inclusive	70°F.
Over 3/4 to 1 1/2, inclusive	100°F.
Over 1 1/2 to 2 1/2, inclusive	175°F.
Over 2 1/2	250°F.

## INDEX OF DRAWINGS

DRAWING NO.	CONTENTS	DRAWING NO.	CONTENTS
1	Layout	39	Joint sealer, waterstops and trough
2	Layout	40	Approach shoulder details
3	Notes and estimate of quant.	41	Approach shoulder details
4	Earthwork	42	Bearings
5	South Abutment	43	Bearings
6	South Abutment	44	Bar list #1
7	North Abutment	45	Bar list #2
8	North Abutment	46	Bar list #3
9	Pier 1	47	Bar list #4
10	Piers 2, 3 and 4	48	Bar list #5
11	Piers 5 and 6	49	Bar list #6
12	Piers 7, 8 and 9 NBL	50	Bar list #7
13	Pier 9 SBL		
14	Pier 10		
15	Piers 11 and 12		
16	Piers 13 and 14		
17	Span 1		
18	Span 1		
19	Spans 2, 3, 4, 5 and 6		
20	Span 3		
21	Spans 6, 7 and 8		
22	Spans 4, 5 and 6		
23	Spans 7, 8 and 9		
24	Spans 7, 8 and 9		
25	Span 10		
26	Span 10		
27	Spans 11 thru 15 SB		
28	Spans 11 thru 15 SB		
29	Spans 11 thru 15 NB		
30	Spans 11 thru 15 NB		
31	Finger joint		
32	Downspout details		
33	Miscellaneous Details		
34	Miscellaneous Details		
35	Concrete parapet		
36	Railing details		
37	Railing layout 1		
38	Railing layout 2		

## ESTIMATE OF QUANTITIES

ITEM		TOTAL		
NO.	DESCRIPTION	UNIT	NEAT	PROPOSAL FINAL
2EF-B	Selected Granular Fill	CY	8,000	8,000
2UF	Underdrain Filter	CY	20	20
5B	Structure Excavation	CY	4,950	4,950
11HG	Perforated Corrugated Metal Pipe	LF	410	410
	Underdrain - 6" Dia.			
13DE-6	Downspouts - 6" Dia.	LF	56	60
13DE-8	Downspouts - 8" Dia.	LF	734	800
18	Class A Concrete for Structures	CY	2,514	2,520
18MA	Class A Concrete for Structures	SF	158,700	158,700
20	Class B Concrete for Structures	CY	2,211	2,220
24A	Bagged Screened Aggregate	CY	110	110
28	Bar Reinforcement for Structures	Lb	2,110,000	2,110,000
28B	Stud Shear Connectors	Ea	30,160	30,160
29	Structural Steel	Lb	7,508,000	7,508,000
37M(1)	Aluminum Bridge Railing (One Rail)	LF	8,680	8,680
61	Bituminous Material	Gal	168	170
79B	Concrete Block Paving	SF	1,130	1,130
83S	Steel Sheet Piling	SF	7,700	7,700
83TAS	Temporary Sheet Piling	SF	18,800	18,800
85C	Cast-in-Place Concrete Piles	LF	75,200	75,200
87	Furnishing Equipment for Driving Piles	LS	Nec	Nec
94SBW	Stone Curb (Granite)	LF	9,050	9,050
101C	Drainage Trough	LF	320	320
124	Sodding	SF	210	210
363J	Epoxy Protective Coating for Concrete	SF	9,150	9,150
1 WPS	Watering Plants and Sod	MCH	4	4

Note -  
Where Item 13DC or Item 13DD appear on these drawings, the specifications for Item 13DE-6 and 13DE-8 shall apply.  
Six inch diameter downspouts shall be paid for under Item 13DE-6  
Eight inch diameter downspouts shall be paid for under Item 13DE-8

ITEM 29	
Type of Steel	Weight
A.S.T.M. Designation A36	1,417,000
" " A441	4,673,000
" " A441 Modified	1,378,500
" " A442	39,500
Total	7,508,000

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

## GENERAL NOTES

## ESTIMATE OF QUANTITIES TABLE

DRAWING NO. 3 OF 50

PROJECT ENGINEER R. PASIEL  
IN CHARGE OF T. E. E. E.  
DESIGNED BY  
DESIGN CHECKED BY  
DETAILED BY  
DETAIL CHECKED BY



All exposed construction joints and exposed edges of concrete shall be chamfered one inch.

The use of fibre forms will be permitted only if the interior surface of the forms have been treated in such a manner as to prevent helical corrugation marks on the finished concrete surface.

Estimated length of cast-in-place concrete piles:

Pier 1	S.E. = 85	Pier 4	S.E. = 70
	N.E. = 85		N.E. = 70
Pier 2	S.E. = 85	Pier 10	S.E. = 70
	N.E. = 80		N.E. = 65
Pier 3	S.E. = 60	Pier 11	S.E. = 65
	N.E. = 65		N.E. = 65
Pier 4	S.E. = 70	Pier 12	S.E. = 65
	N.E. = 70		N.E. = 65
Pier 5	S.E. = 75	Pier 13	S.E. = 55
	N.E. = 60		N.E. = 60
Pier 6	S.E. = 80	Pier 14	S.E. = 60
	N.E. = 50		N.E. = 40*
Pier 7	S.B. = 80		
	N.E. = 50		
Pier 8	S.B. = 70		
	N.E. = 70		

North Abutment = 55

It is anticipated that difficult driving of piles through the South Abutment embankment may be encountered and it may be necessary to utilize mechanical equipment for removing consolidated material from the location of the piles. This may be accomplished by various types of earth augers, well drilling equipment or other devices to remove the consolidated material to permit the piles to be driven to the desired depth or required resistance without distortion.

DRAWING NO. 4 OF 50

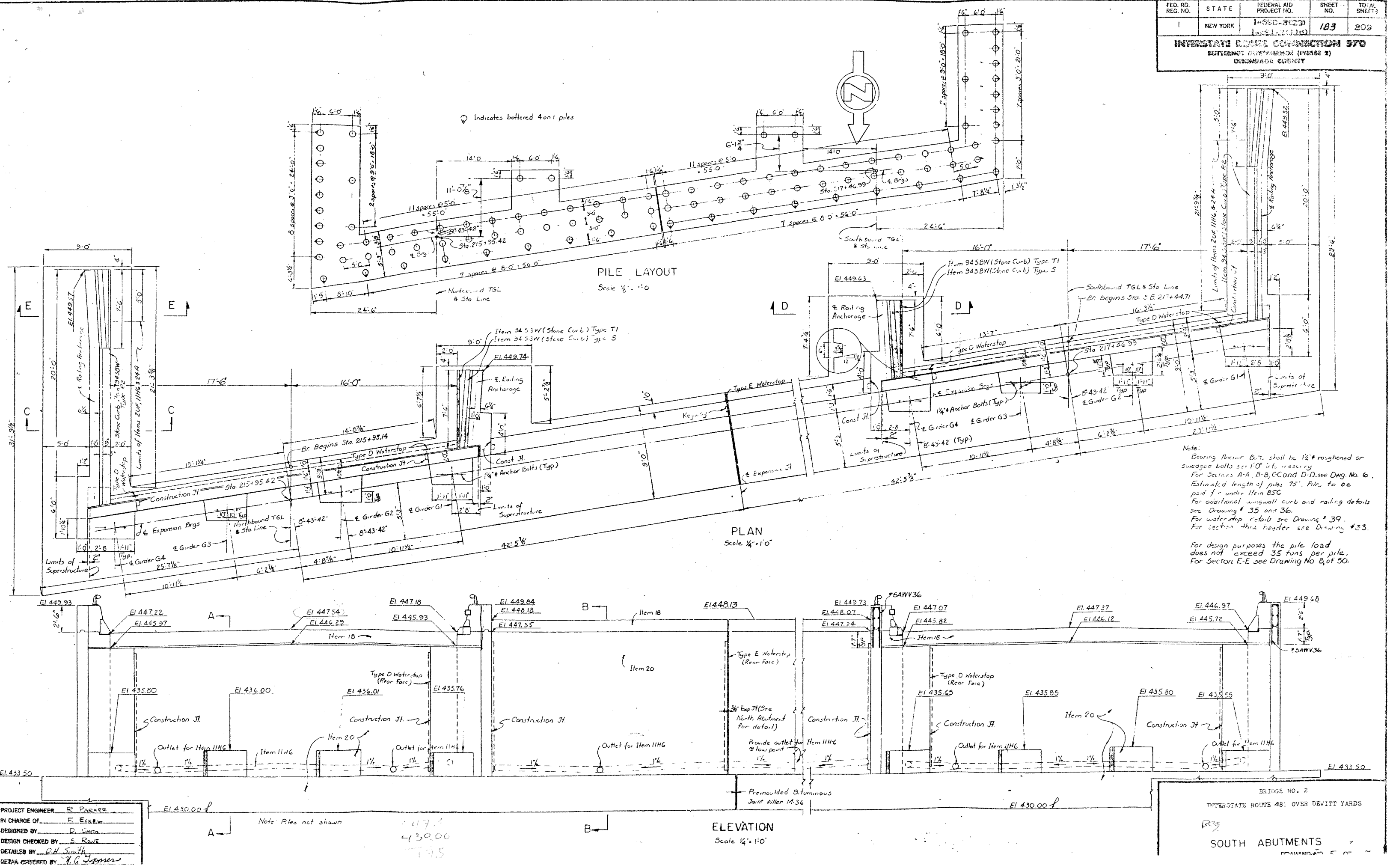
SECTION A-A  
So. ABUTMENT EMBANKMENT  
Scale: 1" = 10'-0" approx.

Excavate unsuitable material ACBE (Item 2). Estimated depth of required excavation equals 5 feet. (Hwy Est.)



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-650-3020	183	206

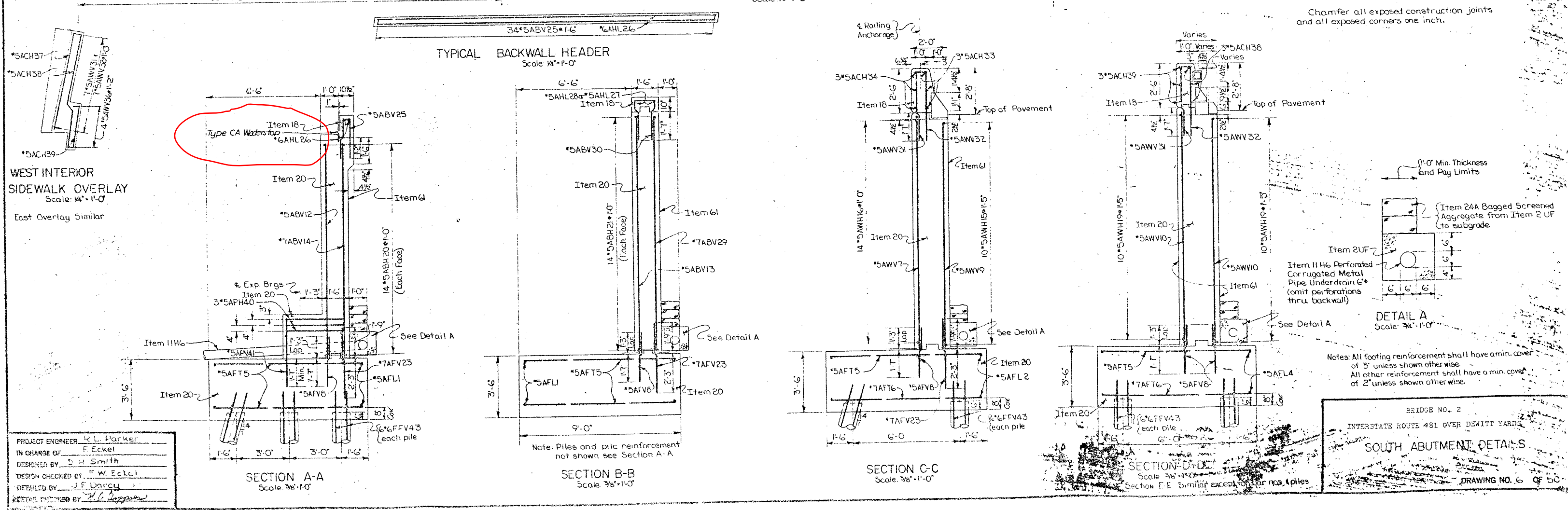
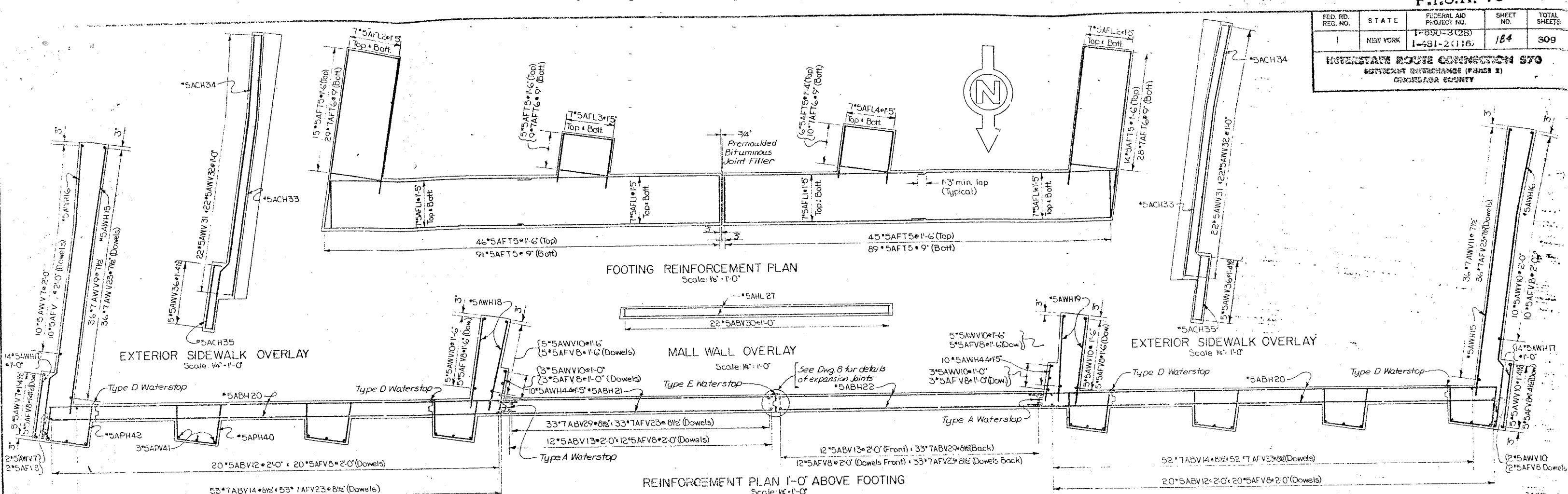
INTERSTATE ROUTE CONNECTION 970  
DIFFERENTIAL CONTINUATION (PHASE 2)  
OVERHEAD CRUISE





FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-690-3(28) 1-481-2(116)	184	309

**INTERSTATE ROUTE CONNECTION 570**  
 DEWITT BYPASS (PHASE 1)  
 ORONDAGA COUNTY



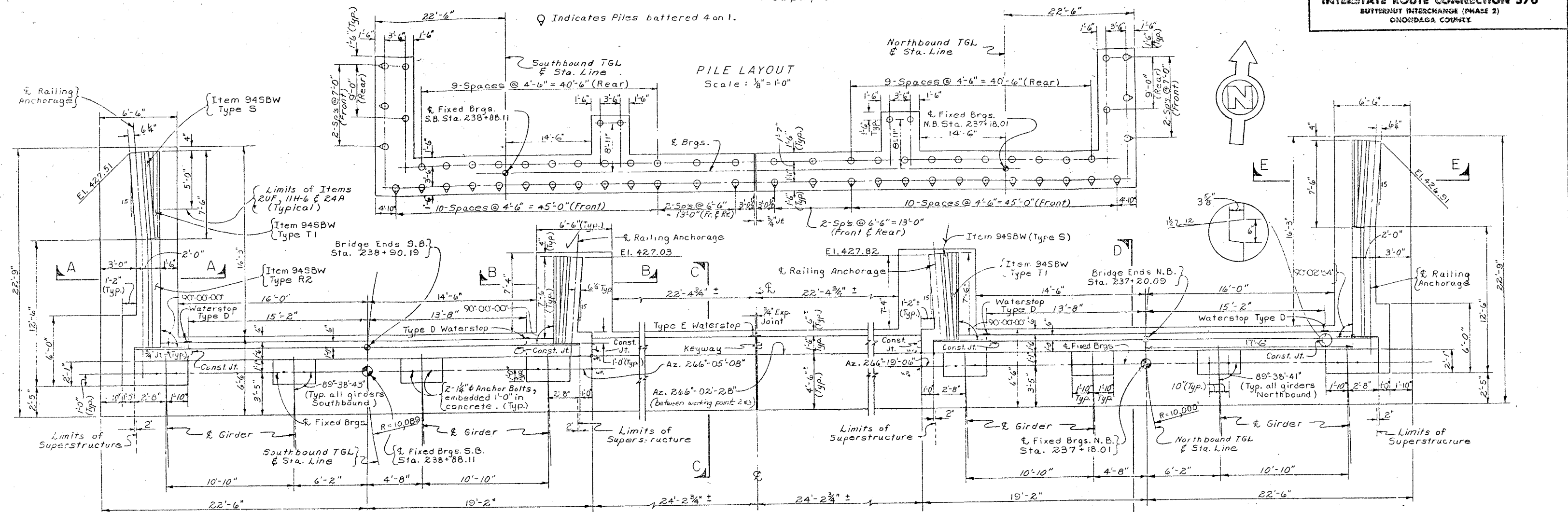
BRIDGE NO. 2  
 INTERSTATE ROUTE 481 OVER DEWITT YARDS  
**SOUTH ABUTMENT DETAILS**  
 DRAWING NO. 6 OF 50



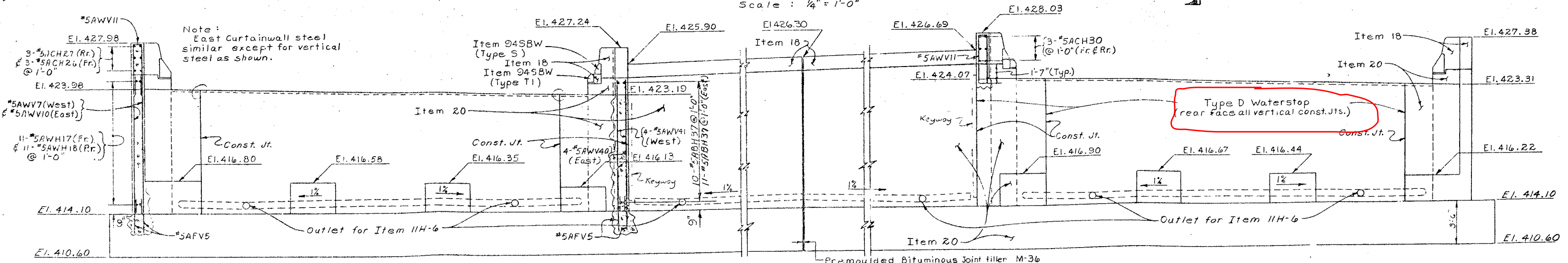
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-690-3(28) 1-481-2(116)	185	309

Piles to be Cast-in-Place Concrete Piles, Item 85C  
Estimated length of pile = 65 feet  
For design purposes the pile load does not exceed  
35 tons per pile.

**INTERSTATE ROUTE CONNECTION 570**  
**BUTTERNUT INTERCHANGE (PHASE 2)**  
**ONONDAGA COUNTY**



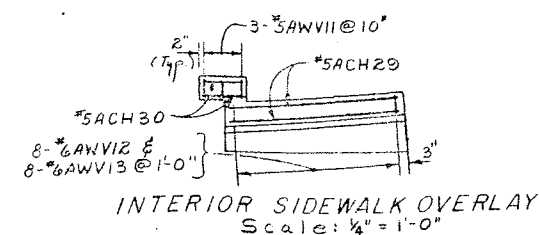
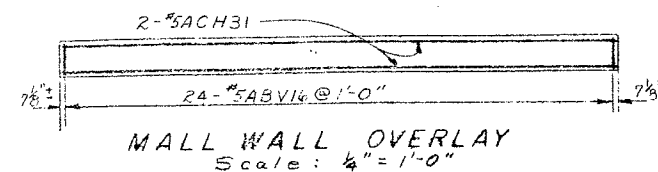
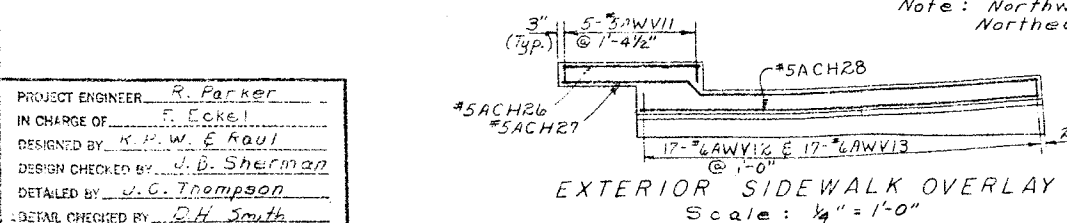
P L A N  
Scale :  $\frac{1}{4}" = 1'-0"$



ELEVATION  
Scale :  $\frac{1}{4}'' = 1'-0''$

Note :  
Piles not shown in Elevation.  
Omit perforations in Item 11H-6  
extension thru wall.

Note: Northwest overlays shown,  
Northeast similar by opposite hand.



BRIDGE NO. 2

INTERSTATE ROUTE 481 OVER DEWITT YARDS

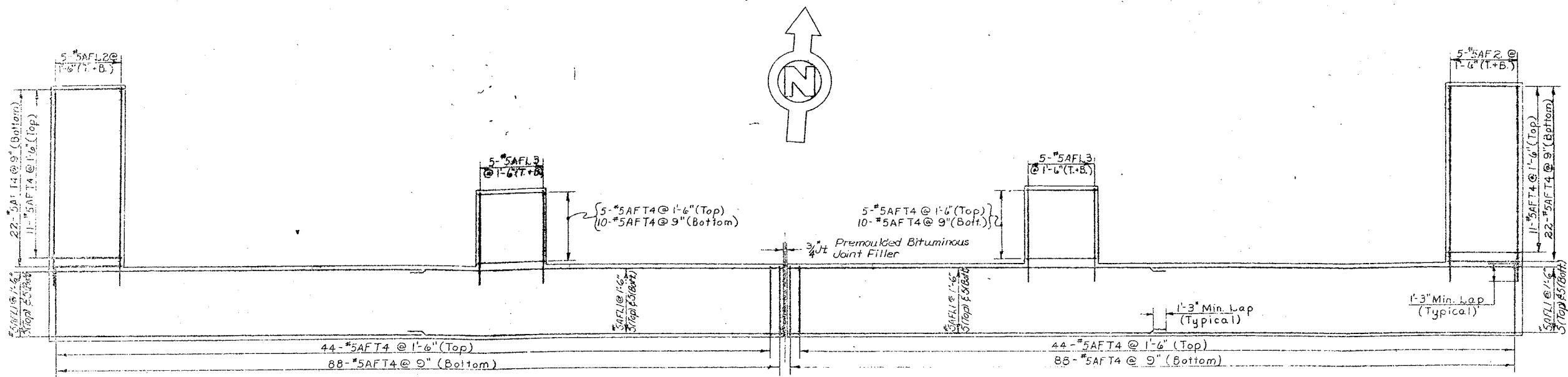
NORTH ABUTMENTS

DRAWING NO. 7 OF 50

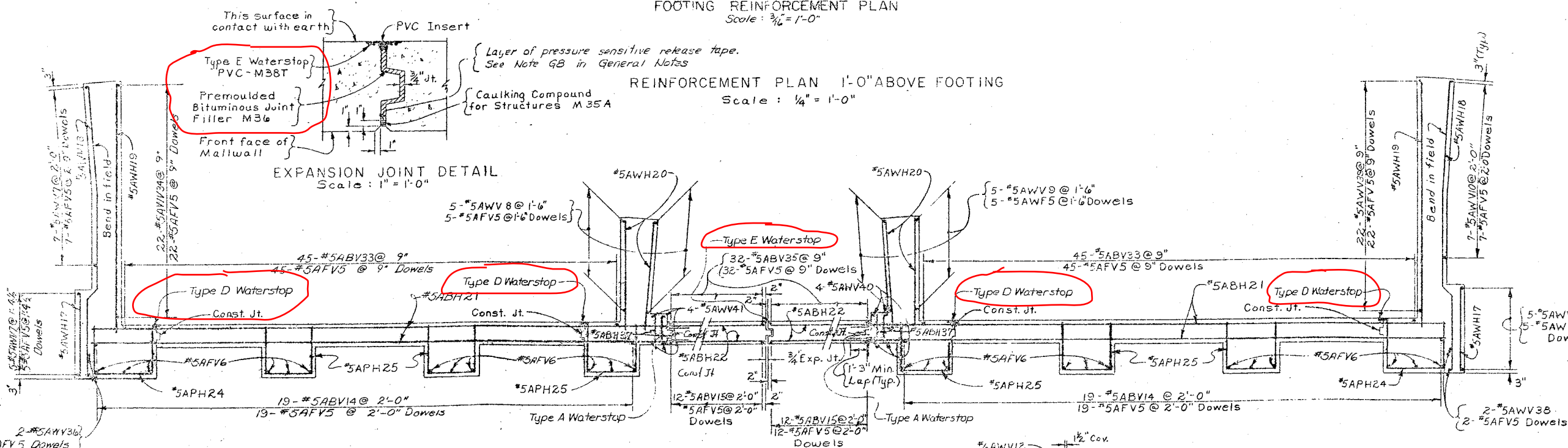


FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-680-8(2B) 1-441-2(15)	186	800

**INTERSTATE ROUTE 491 OVER DEWITT YARDS**  
DEWITT YARDS (PANEL 2)  
ORONDAAGA COUNTY

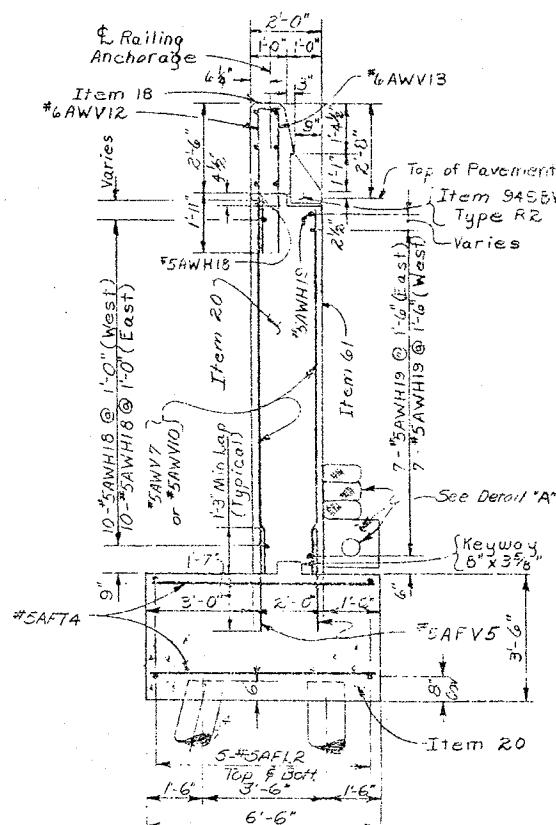


FOOTING REINFORCEMENT PLAN  
Scale: 3/8" = 1'-0"

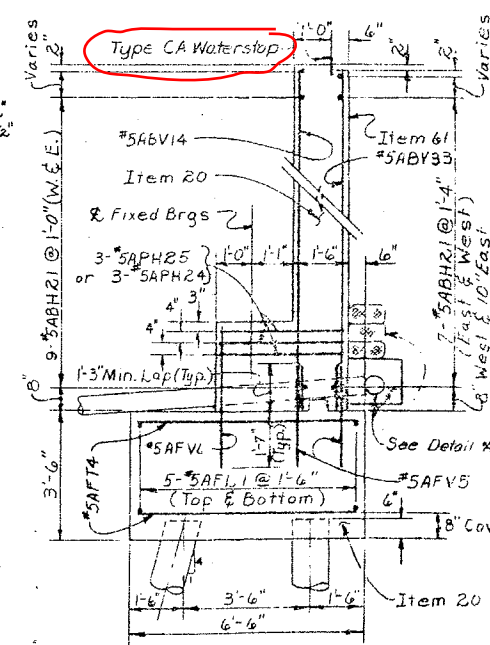


REINFORCEMENT PLAN 1'-0" ABOVE FOOTING  
Scale: 1/4" = 1'-0"

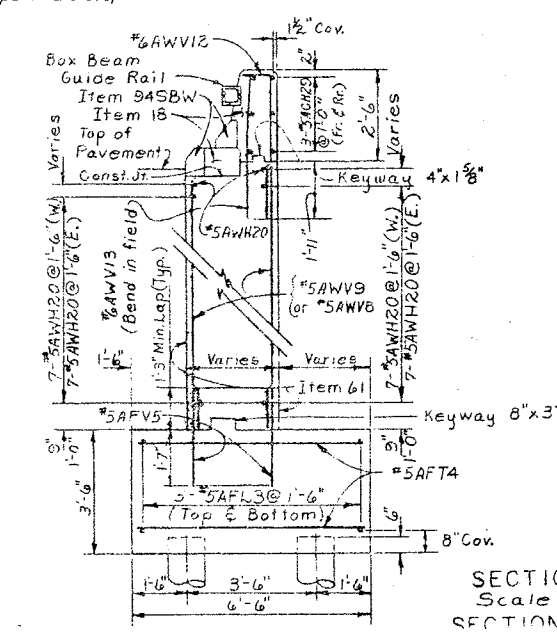
EXPANSION JOINT DETAIL  
Scale: 1" = 1'-0"



SECTION "A-A"  
Scale: 3/8" = 1'-0"



SECTION "D-D"  
Scale: 3/8" = 1'-0"

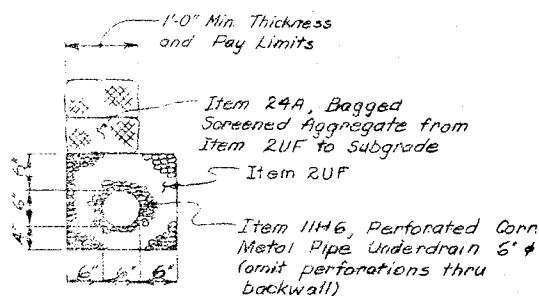


SECTION "B-B"  
Scale: 3/8" = 1'-0"

SECTION "E-E" (Similar except for Bar Size and Pile)

SECTION "C-C"  
Scale: 3/8" = 1'-0"

- Notes:-
- See Drawing # 39 for Waterstops.
  - All footing reinforcement shall have a min. cover of 3" unless otherwise noted.
  - All other reinforcement shall have a min. cover of 2" unless otherwise noted.
  - All exposed construction joints shall be chamfered one inch.
  - All exposed corners shall be chamfered one inch.



DETAIL "A"  
Scale: 3/8" = 1'-0"

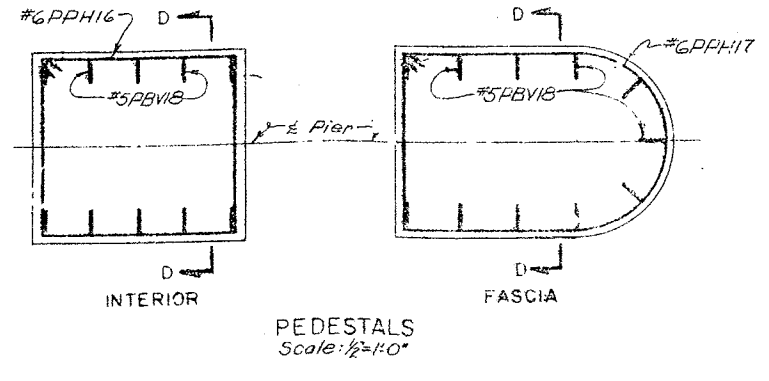
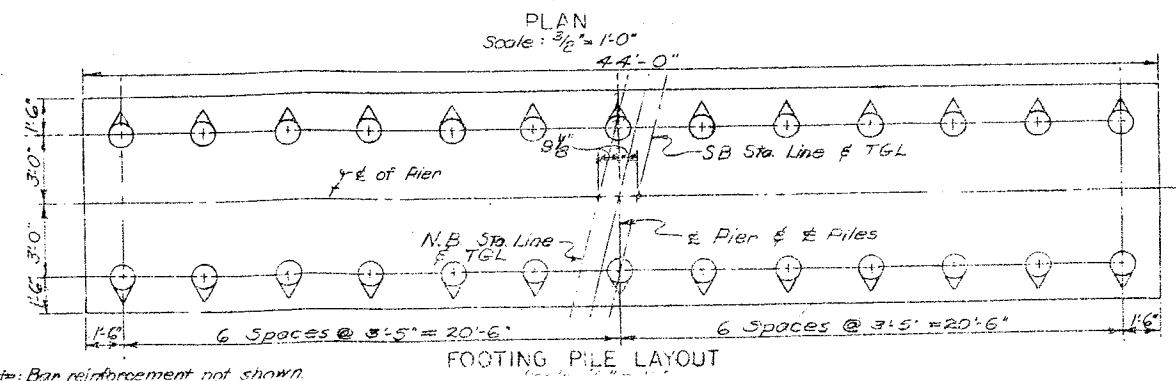
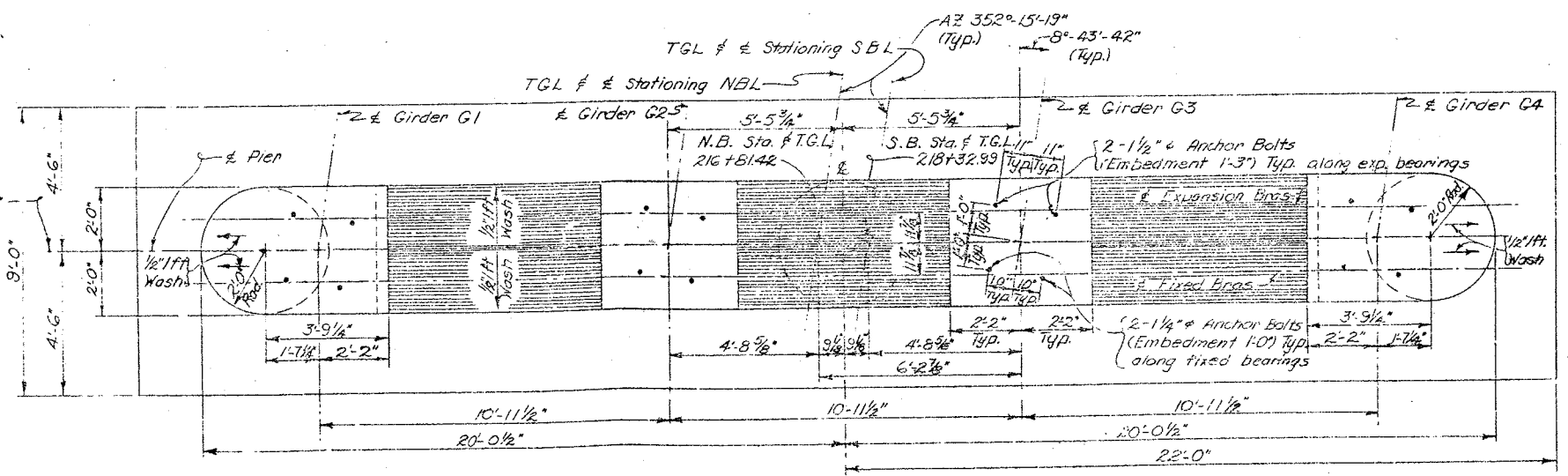
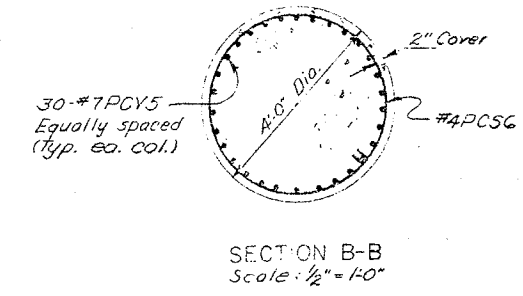
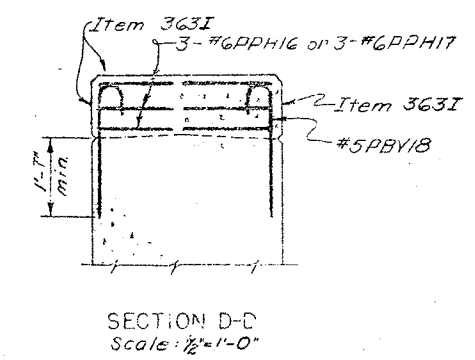
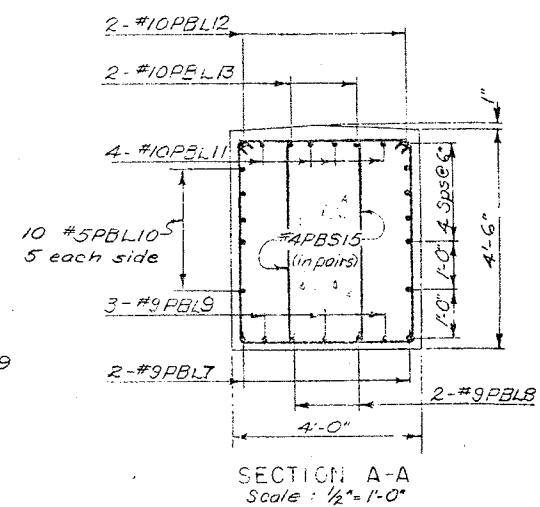
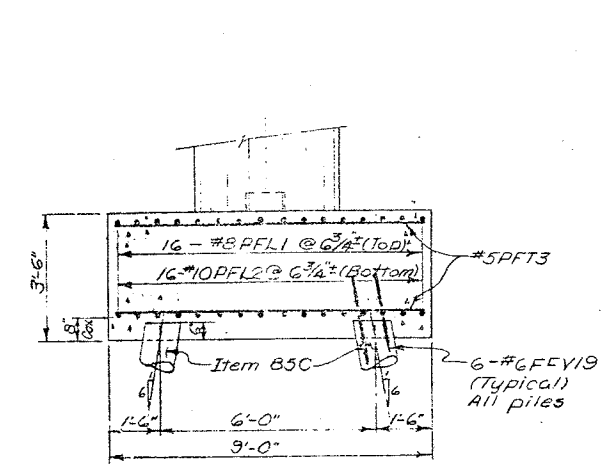
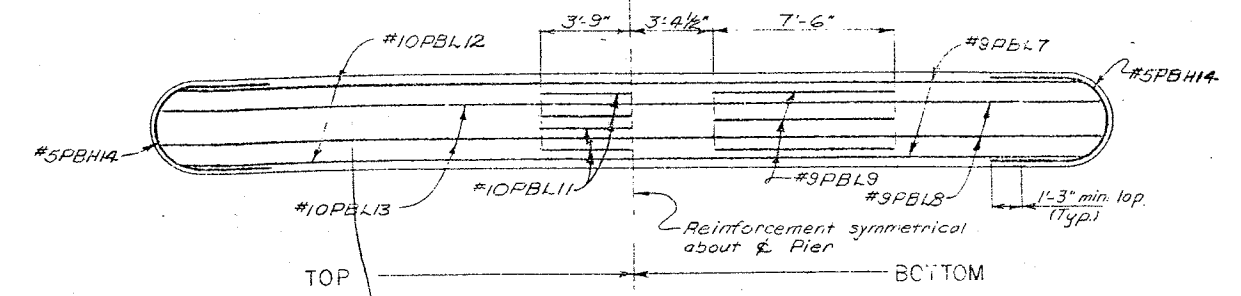
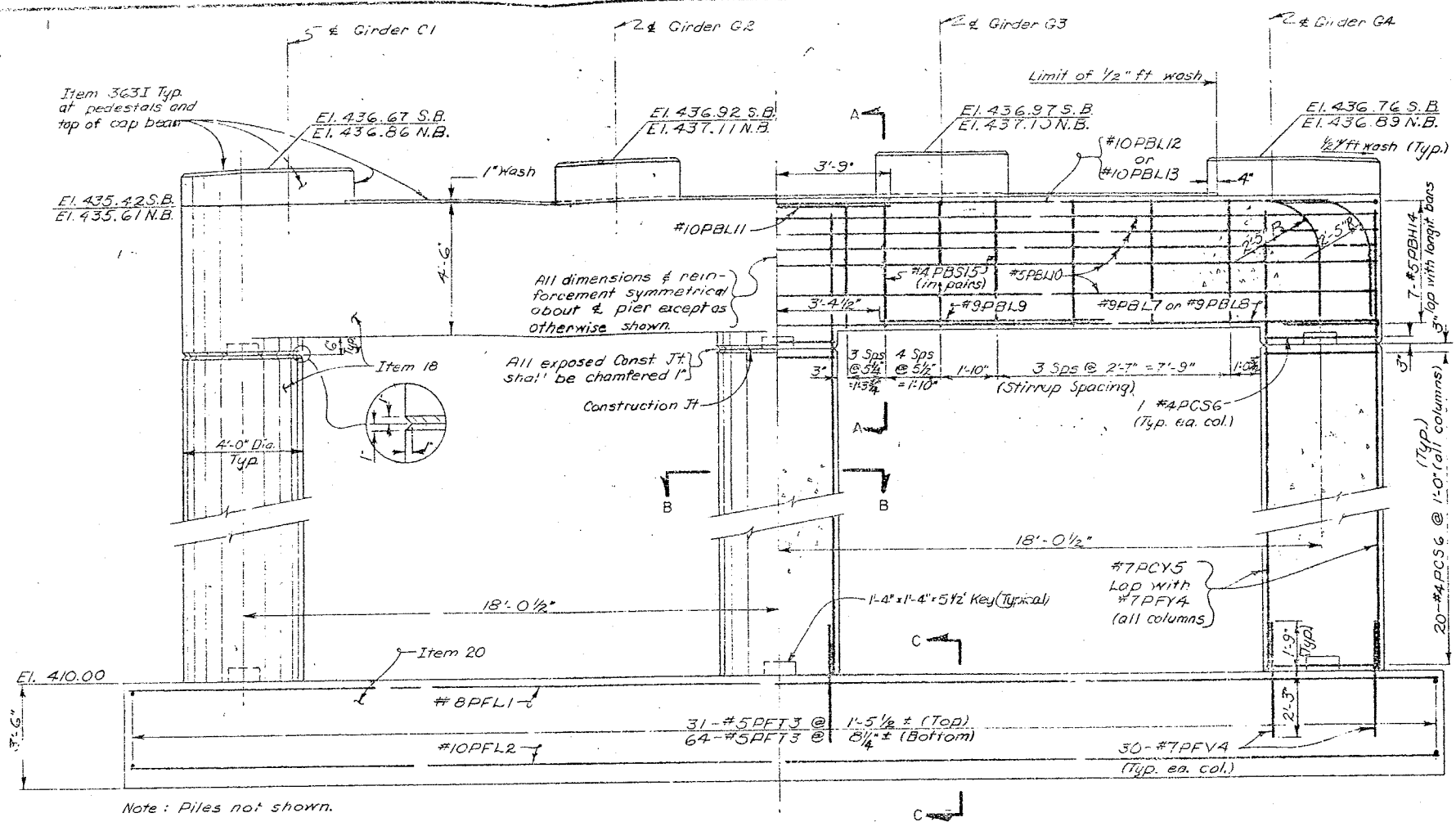
PROJECT ENGINEER: J. Parker  
IN CHARGE OF: J. E. Kei  
DESIGNED BY: J. Wichter  
DESIGN CHECKED BY: J. E. Kei  
DRAWN BY: J. Wichter  
CHECKED BY: J. E. Kei

BRIDGE NO. 2  
INTERSTATE ROUTE 491 OVER DEWITT YARDS  
NORTH ABUTMENT DETAILS  
DRAWING NO. 8 OF 10



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-630-3(116)	187	309

**INTERSTATE ROUTE CORRECTION 570**  
 DETWITT INTERCHANGES (PHASE 2)  
 ONONDAGA COUNTY



Notes:

- All footing reinforcement shall have a min. cov. of 3" unless otherwise shown.
- All other reinforcement shall have a min. cov. of 2" unless otherwise shown.
- Estimated length of cast-in-place concrete piles = 55' Southbound and 60' Northbound.
- For design purposes the pile load does not exceed 35 tons per pile.
- For details of pile reinforcement see Drawing No. 42

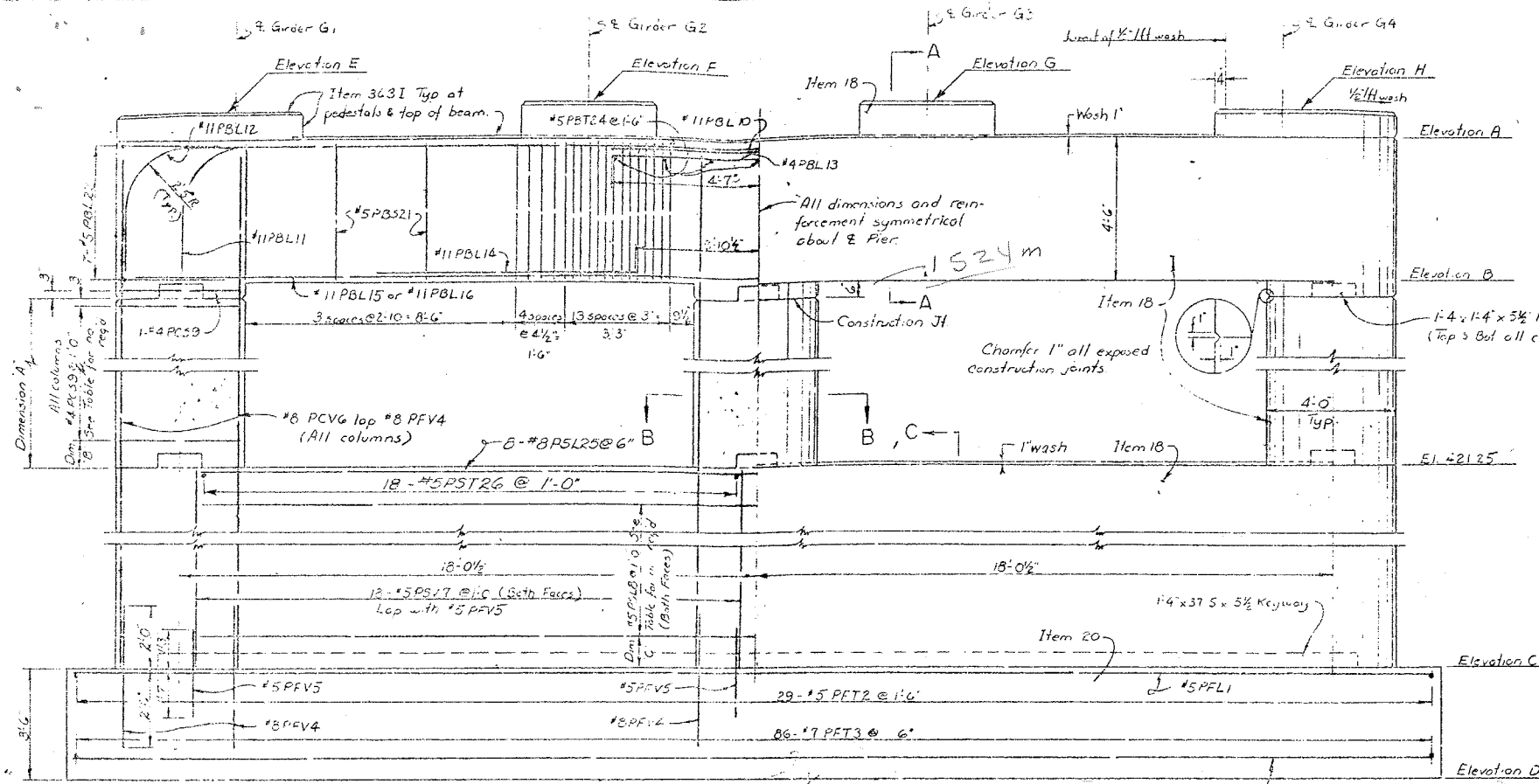
PROJECT ENGINEER: R.L. Parker  
 IN CHARGE OF: F. Eckel  
 DESIGNED BY: N.A. Rappas  
 DESIGN CHECKED BY: F. Thibault  
 DETAIL BY: J. Vincent  
 DETAIL CHECKED BY: R.L. Parker

BRIDGE NO. 2  
 INTERSTATE ROUTE 461 OVER DEWITT YARDS  
 PIER 1 (NB & SB)  
 DRAWING NO. 3 OF 4



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-830-8(28) 1-831-2(118)	188	309

**INTERSTATE ROUTE CORRECTION 370**  
DEWITT CORRECTION (PIER 2)  
ORANGE COUNTY



Notes: Piles not shown  
Downspouts not shown

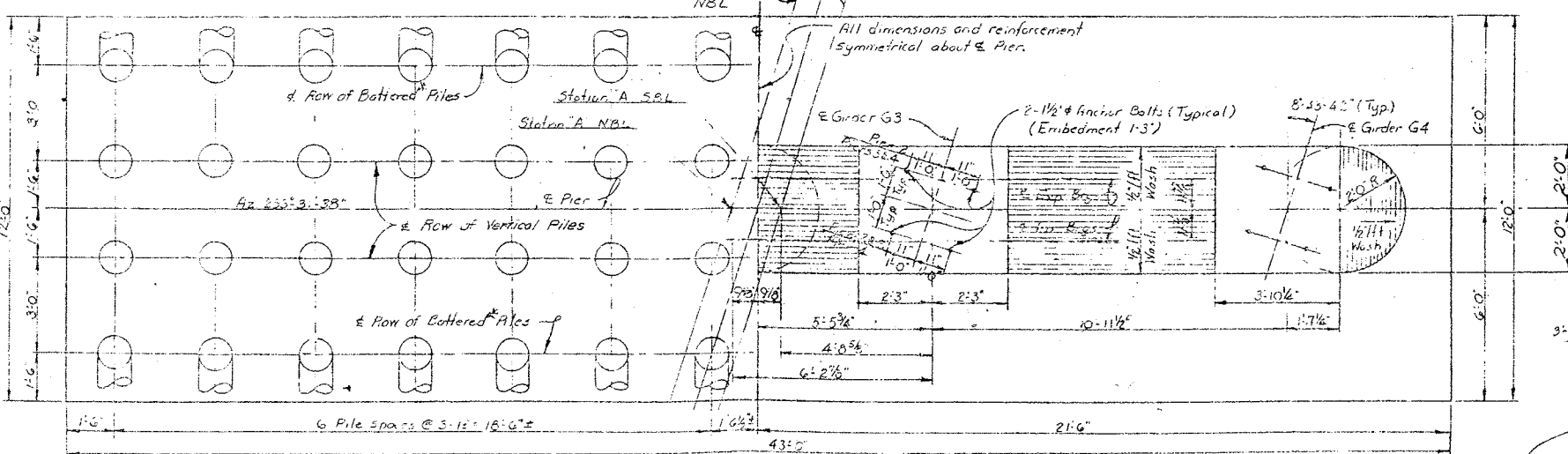
ELEVATION

Scale 3/4" = 1'-0"

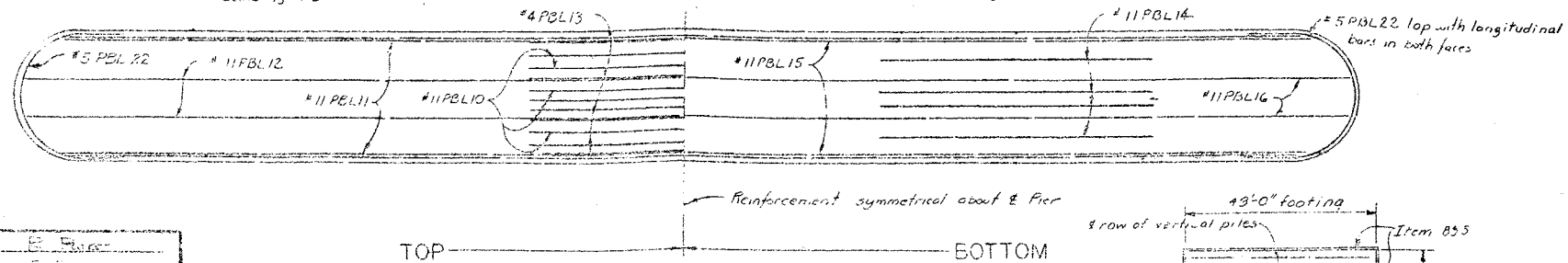
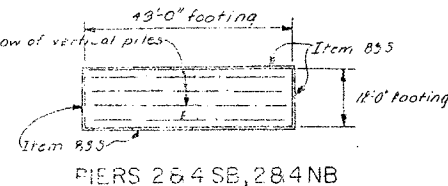
TGL & Stationing  
NBL  
SBL

All dimensions and reinforcement  
symmetrical about E Pier.

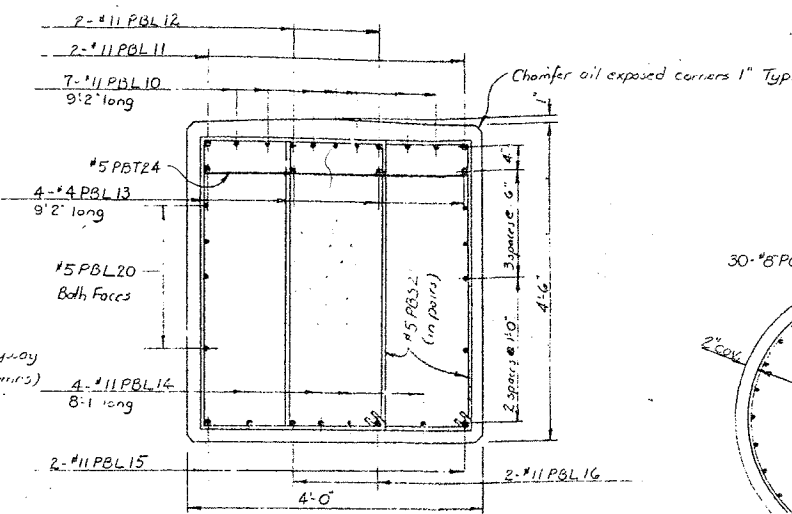
Battered Pile shown. Do not  
batter piles adjacent to Steel  
Sheet Piling, Item 83 S

FOOTING PILE LAYOUT  
Scale 3/8" = 1'-0"

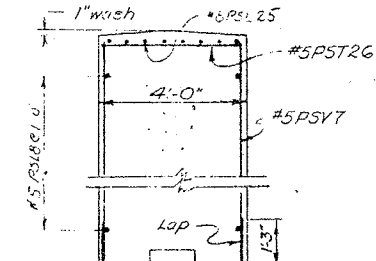
\* Piles adjacent to Steel Sheet Piling  
shall not be battered.

PLAN  
Scale 3/8" = 1'-0"PIER CAP REINFORCEMENT  
Scale 3/8" = 1'-0"

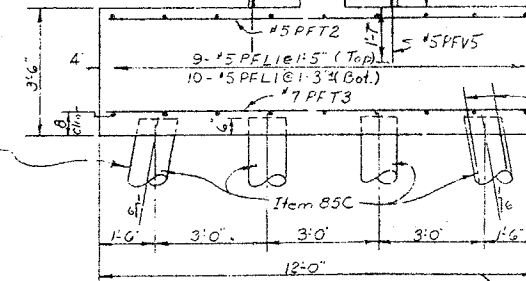
PIERS 2 &amp; 4 SB, 284 NB

SECTION A-A  
Scale 3/4" = 1'-0"

Scale 3/4" = 1'-0"

SECTION B-B  
Scale 3/4" = 1'-0"

Scale 3/4" = 1'-0"

SECTION C-C  
Scale 3/8" = 1'-0"

Scale 3/8" = 1'-0"

Note: All facing reinforcement shall have a min. cover of 3" unless  
otherwise shown.  
All other reinforcement shall have a min. cover of 2" unless  
otherwise shown.  
Estimated length of cast-in-place concrete piles: Pier #2 SB 55'  
long, Pier #2 NB & Pier #3 SB 60' long, Pier #3 NB 65' long, &  
Pier #4 NB & SB 70' long.  
For design purposes the pile load does not exceed 35 tons/pile.

Downspouts to be paid for under Item 13 DE. Each hopper  
to be drained by one downspout attached to each exterior column.  
See drawing #32 for details.

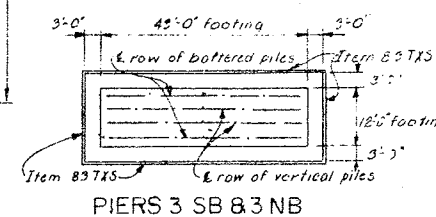
\* 6 FFV23 for details of  
pile reinforcement see Drawing  
No. 42

STATION "A"

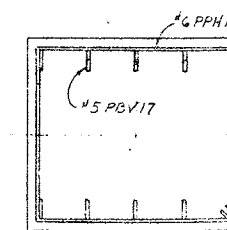
	NBL	SBL
PIER 2	218+37.59	219+49.15
PIER 3	220+08.76	221+60.32
PIER 4	222+06.76	223+58.32

PIER DATA

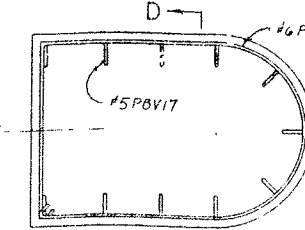
DESCRIPTION	NORTHBOUND			SOUTHBOUND		
	PIER 2	PIER 3	PIER 4	PIER 2	PIER 3	PIER 4
ELEVATION A	437.00	438.00	438.50	437.00	438.00	438.50
B	432.50	433.50	434.00	432.50	433.50	434.00
C	411.00	413.00	412.80	411.00	413.00	412.80
D	407.50	409.50	409.30	407.50	409.50	409.30
E	438.42	439.47	439.83	438.28	439.38	439.80
F	438.66	439.70	440.07	438.52	439.61	440.05
G	438.64	439.68	440.04	438.56	439.65	440.08
H	438.43	439.46	439.79	438.35	439.43	439.83
DIM A	10.75'	11.75'	12.25'	10.75'	11.75'	12.25'
B	6"	6"	1'-0"	6"	6"	1'-0"
NO PCS9	12	13	13	12	13	13
DIM C	1'-0"	1'-0"	3"	1'-0"	1'-0"	3"
NO PSL8	20	16	18	20	16	18



PIERS 3 SB 83 NB



INTERIOR



FASCIA

PEDESTALS  
Scale 1/2" = 1'-0"

Scale 1/2" = 1'-0"

For details of Steel Sheet Piling, Item 83 S, see  
Drawing No. 4.

BRIDGE NO. 2

INTERSTATE ROUTE 481 OVER DEWITT YARDS

PIERS 2, 3, 4 (NB &amp; SB)

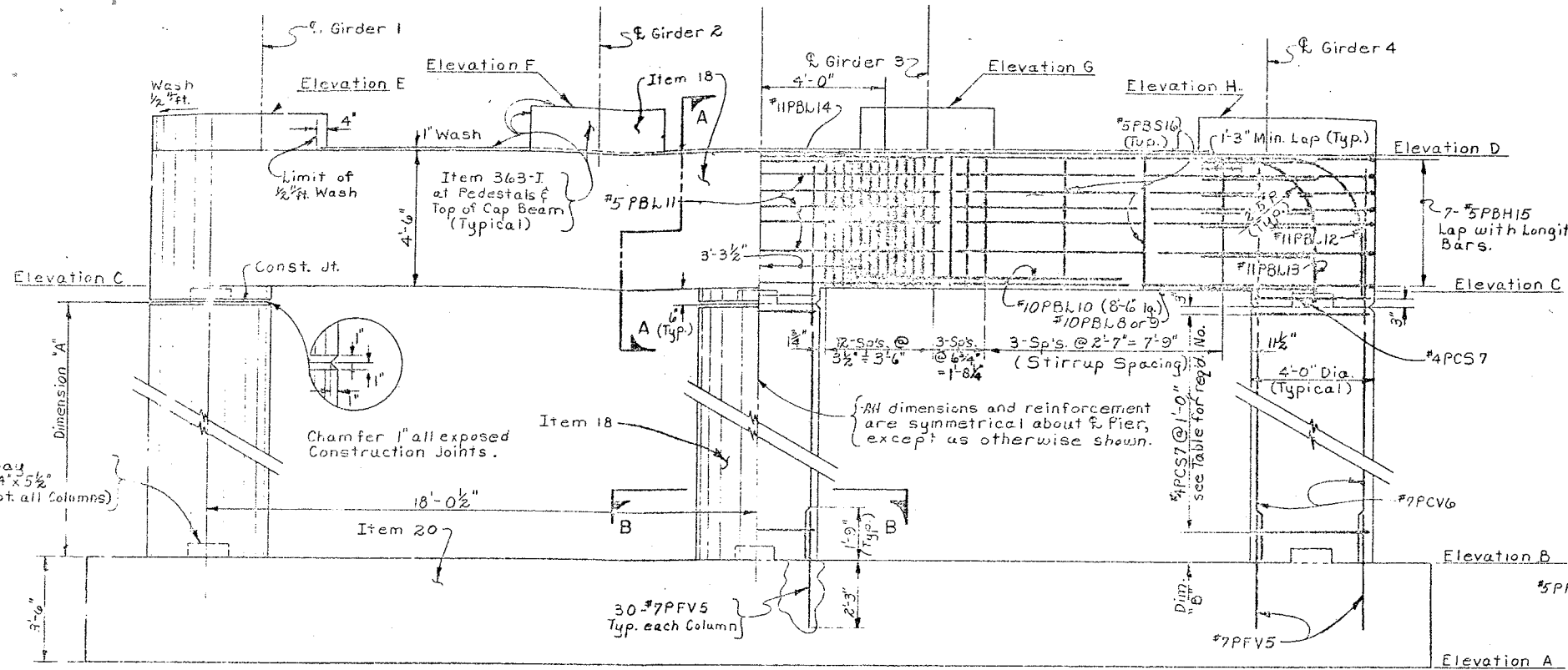
DRAWING NO. 10 OF 30

PROJECT ENGINEER: E. F. BAKER  
IN CHARGE OF: E. F. BAKER  
DESIGNED BY: E. F. BAKER  
DESIGN CHECKED BY: N. J. TOPP  
DETAILED BY: D. L. SMITH  
DESIGNED BY: E. F. BAKER



FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
NEW YORK	NEW YORK	1-681-2(16)	189	308

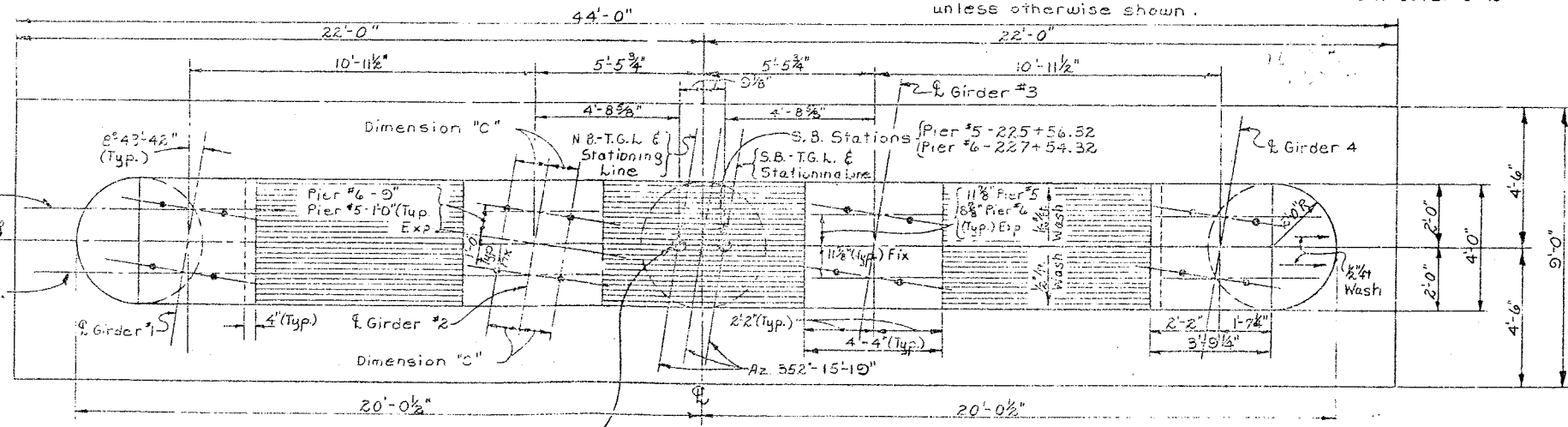
**INTERSTATE ROUTE CORRELATION 570**  
NORTHWEST INTERCHANGES (PHASE 2)  
CHENANGO COUNTY



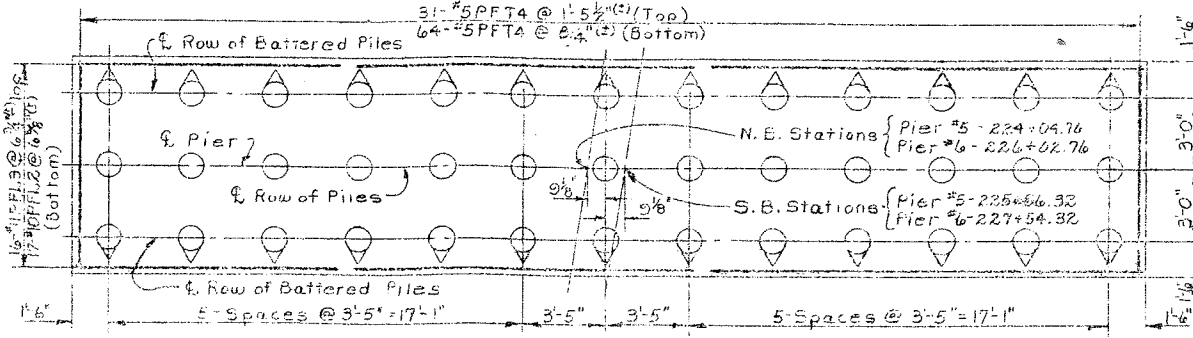
**ELEVATION**  
Scale:  $\frac{3}{8}'' = 1'-0''$

Notes:  
Piles and Downspouts not shown.  
Footng reinforcement not shown.

Notes:  
All footing reinforcement shall have a minimum cover of 3" unless otherwise shown.  
All other reinforcement shall have a minimum cover of 2" unless otherwise shown.

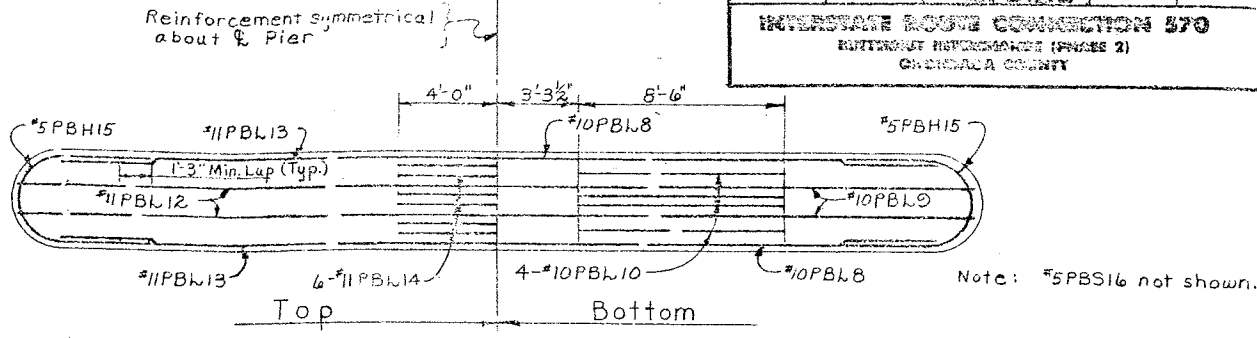


**PLAN**  
Scale:  $\frac{3}{8}'' = 1'-0''$

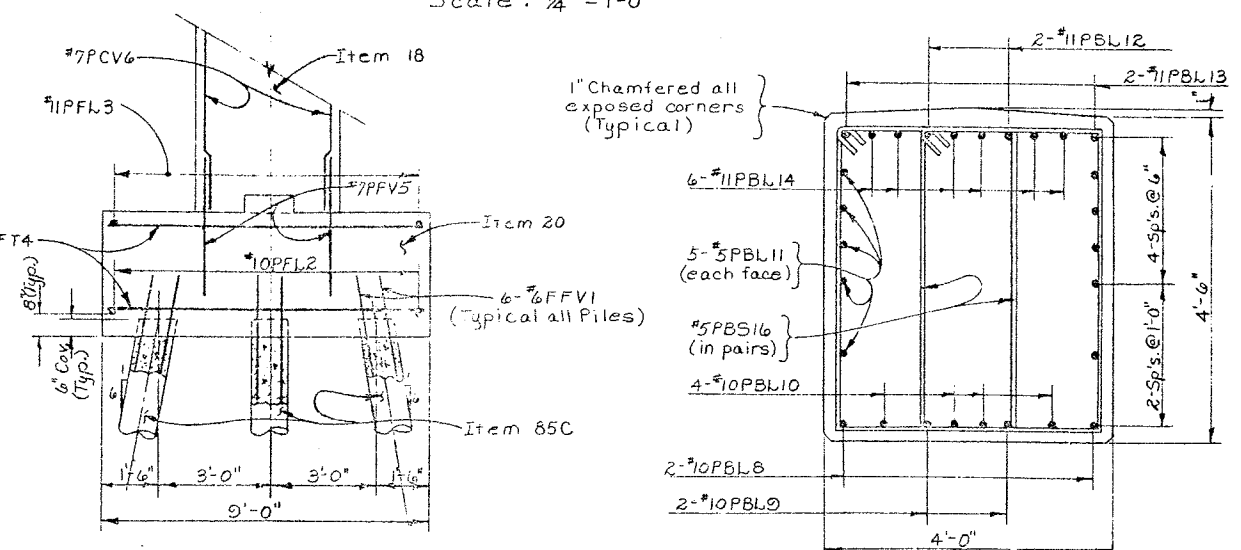


**FOOTING REINFORCEMENT PLAN & PILE LAYOUT**  
Scale:  $\frac{1}{4}'' = 1'-0''$

Note:  
For Design purposes the pile load does not exceed 35 tons per pile.

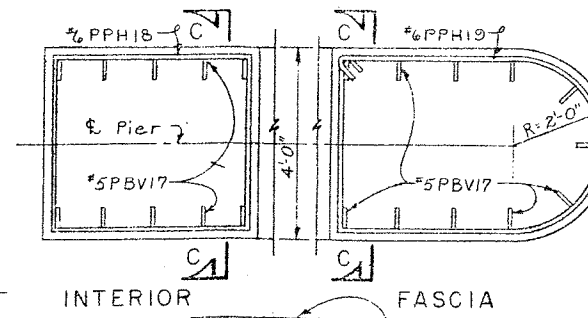


**PIER CAP REINFORCEMENT**  
Scale:  $\frac{1}{4}'' = 1'-0''$



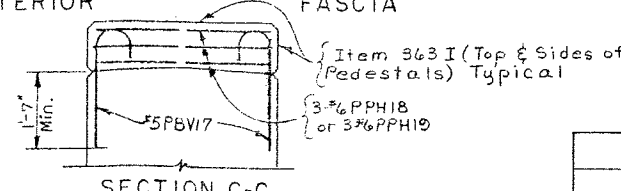
**END SECTION**  
Scale:  $\frac{3}{8}'' = 1'-0''$

**SECTION A-A**  
Scale:  $\frac{3}{4}'' = 1'-0''$

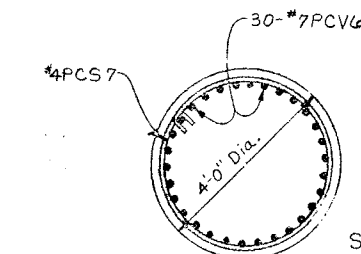


**INTERIOR FASCIA**

**PEDESTAL REINFORCEMENT**  
Scale:  $\frac{1}{2}'' = 1'-0''$



**SECTION C-C**



**SECTION B-B**  
Scale:  $\frac{1}{2}'' = 1'-0''$

DESCRIPTION	PIER DATA			
	PIER No. 5		PIER No. 6	
	N.B.	S.B.	N.B.	S.B.
ELEVATION A	409.90	409.30	410.50	407.30
" " B	412.80	412.80	414.00	410.60
" " C	433.45	433.55	431.96	432.12
" " D	437.95	438.05	436.46	436.62
" " E	439.26	439.30	437.79	437.88
" " F	439.50	439.54	438.00	438.10
" " G	439.46	439.56	437.95	438.11
" " H	439.20	439.30	437.71	437.87
DIM. A	20'-2"	20'-3"	17'-5 1/2"	20'-10"
DIM. B	11"	1'-0"	3"	7"
NO. HOOPS	21	21	19	22

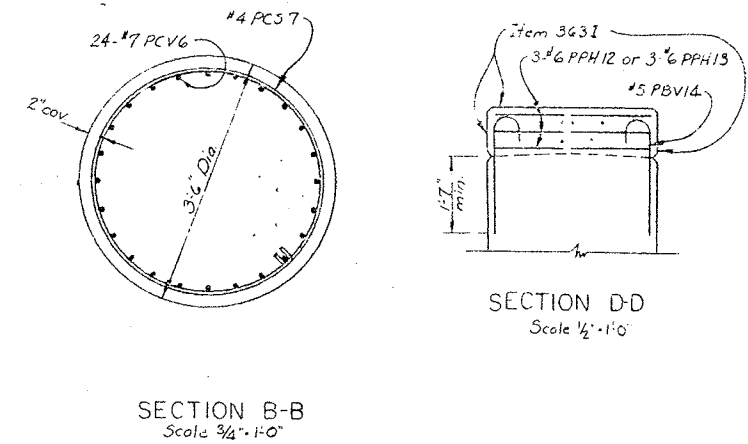
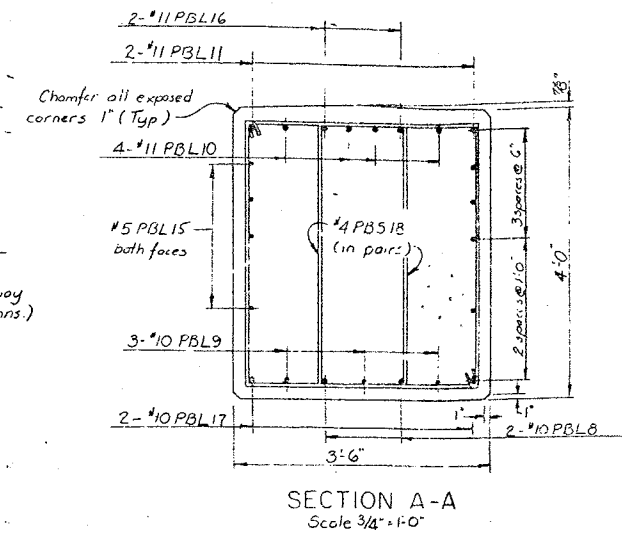
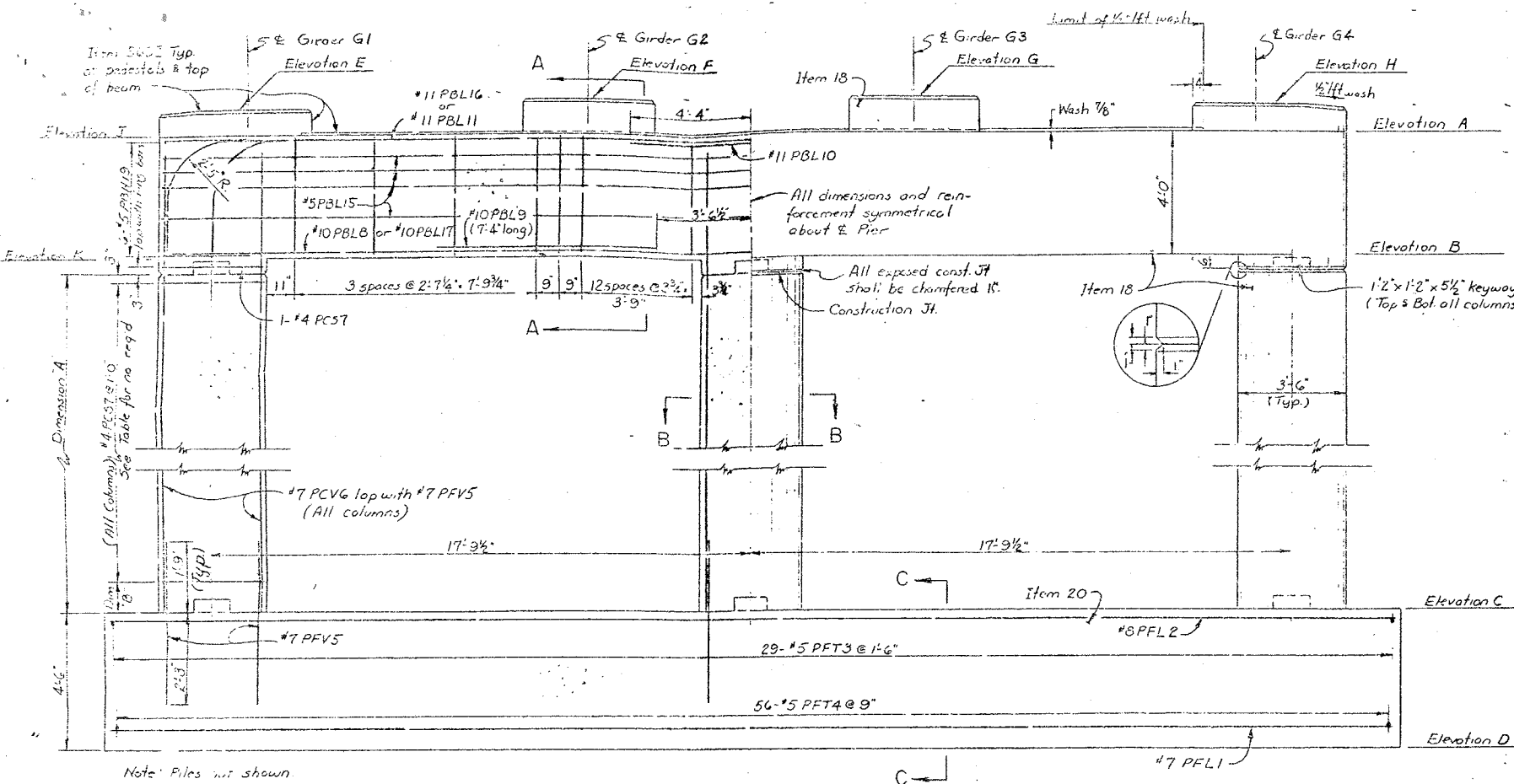
ANCHOR BOLT DATA						
GIRDER	PIER NO. 5 S.B. & NB			PIER NO. 6 N.B. & S.B.		
	Ø BOLT	REQD. EMB.	DIM. C	Ø BOLT	REQD. EMB.	DIM. C
FIXED BRGS.	G1	1 1/2"	1'-3"	1'-0"	1 1/2"	1'-3"
	G2	1 1/2"	1'-3"	1'-0"	1 1/2"	1'-3"
	G3	1 1/2"	1'-3"	1'-0"	1 1/2"	1'-3"
	G4	1 1/2"	1'-3"	1'-0"	1 1/2"	1'-3"
EXP. BRGS.	G1	1 1/2"	1'-3"	1'-0"	1 1/2"	1'-3"
	G2	1 1/2"	1'-3"	1'-0"	1 1/2"	1'-3"
	G3	1 1/2"	1'-3"	1'-0"	1 1/2"	1'-3"
	G4	1 1/2"	1'-3"	1'-0"	1 1/2"	1'-3"

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

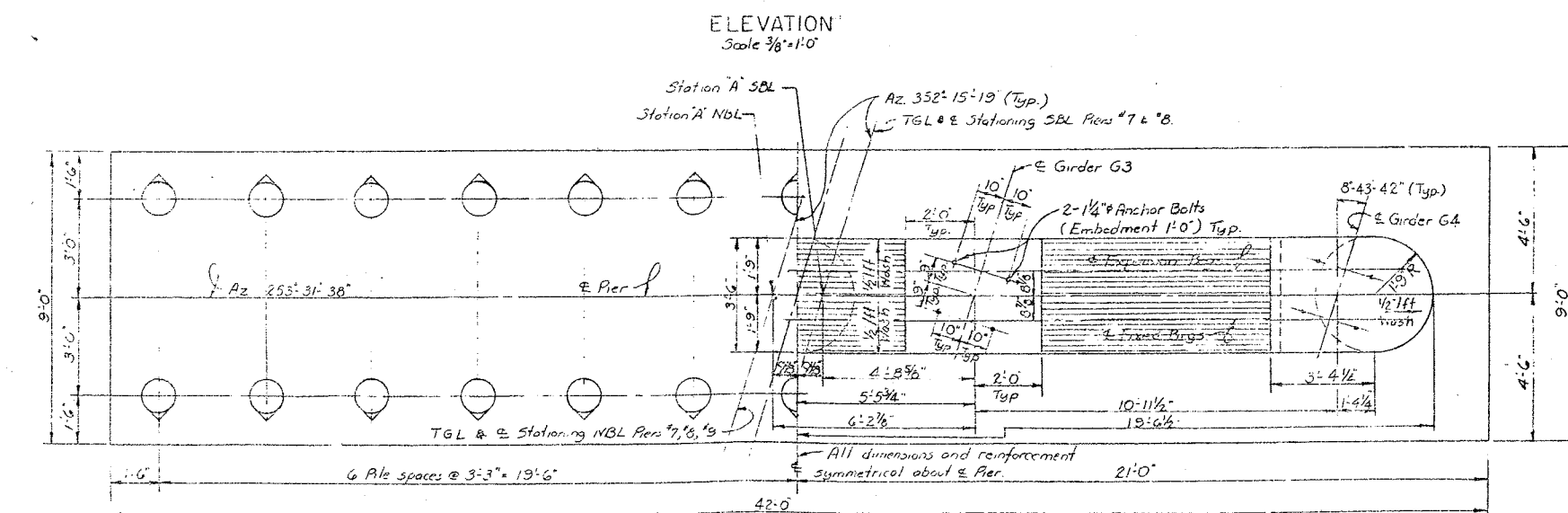
PIERS 5 & 6 (N.B. & S.B.)



FED. RD. DIST. NO.	STATE	FED. AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-680-3(25)	10	90
BRIDGE NO. 2 INTERSTATE ROUTE 481 OVER DEWITT YARDS CHATEAU COUNTY				



Note: All footing reinforcement shall have a min. cover of 3" unless otherwise shown.  
 All other reinforcement shall have a min. cover of 2" unless otherwise shown.  
 Estimated length of cast-in-place concrete piles - 80' at Pier 7 NB & SB, 70' at Pier 8 NB & SB and Pier 9 NB.  
 For design purposes the pile load does not exceed 35 tons per pile.  
 For details of pile reinforcement see Drawing No. 42

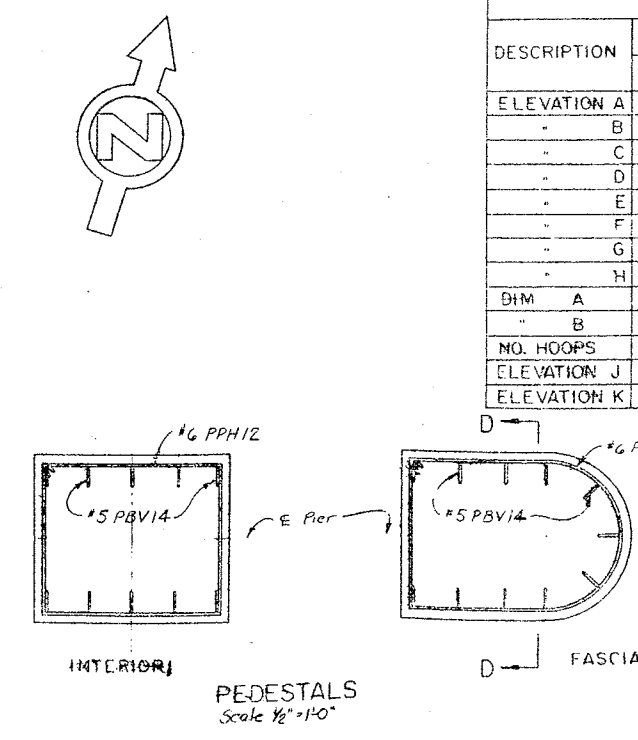
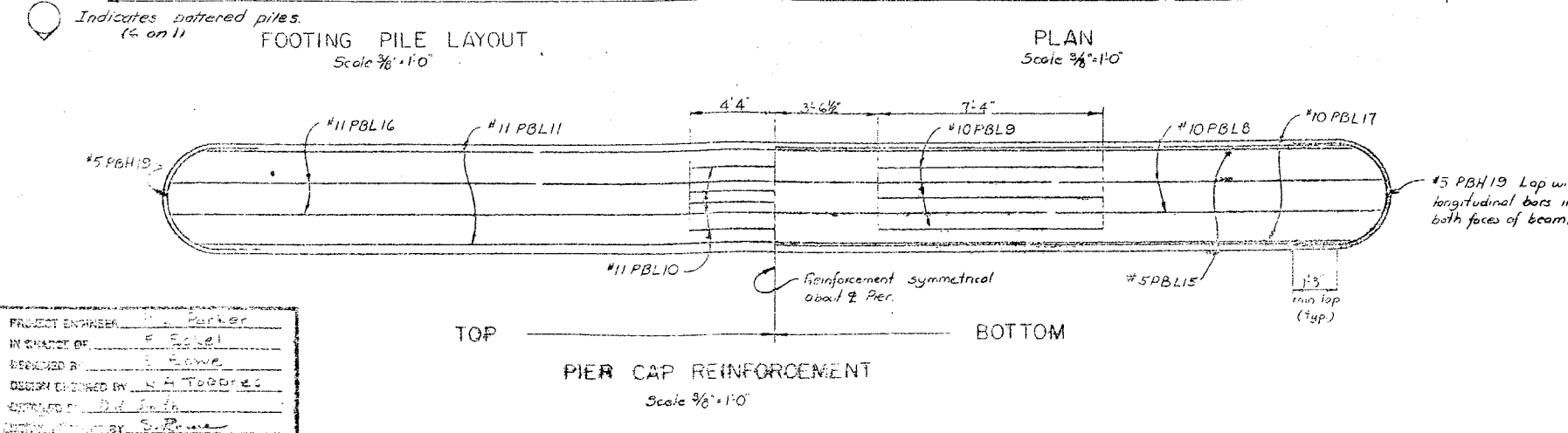


STATION "A"

	NBL	SBL
PIER 7	227+26.76	228+78.32
PIER 8	228+50.76	230+02.32
PIER 9	229+74.76	

PIER DATA

DESCRIPTION	NORTHBOUND			SOUTHBOUND	
	PIER 7	PIER 8	PIER 9	PIER 7	PIER 8
ELEVATION A	438.29	436.51	434.36	438.49	436.74
" B	434.29	432.51	430.36	434.49	432.74
" C	410.00	408.80	407.70	409.00	408.00
" D	405.50	404.30	403.20	404.50	403.50
" E	439.39	437.62	435.69	439.52	437.79
" F	439.59	437.82	435.74	439.73	437.99
" G	439.54	437.76	435.62	439.74	438.00
" H	439.29	437.51	435.36	439.49	437.74
DIM A	23.79	23.21	22.16	24.99	24.24
" B	6 1/2"	11 1/2"	11"	9"	10"
NO. HOOPS	24	23	22	25	24
ELEVATION J	438.29	436.51	434.69	438.49	436.74
ELEVATION K	434.29	432.51	430.69	434.49	432.74



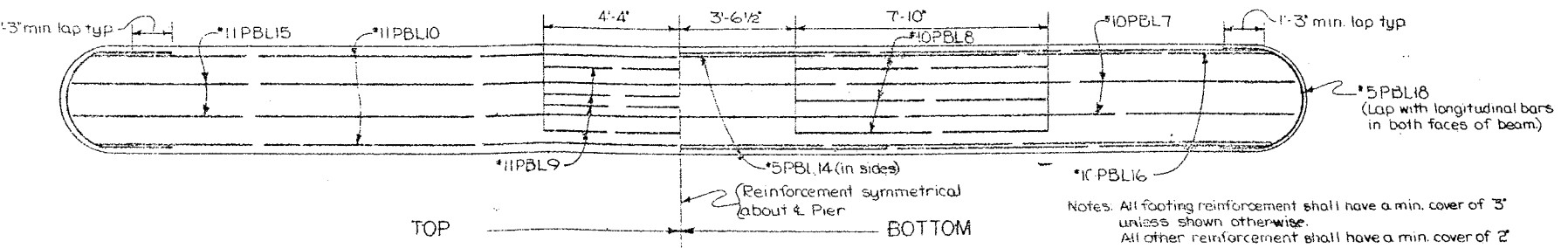
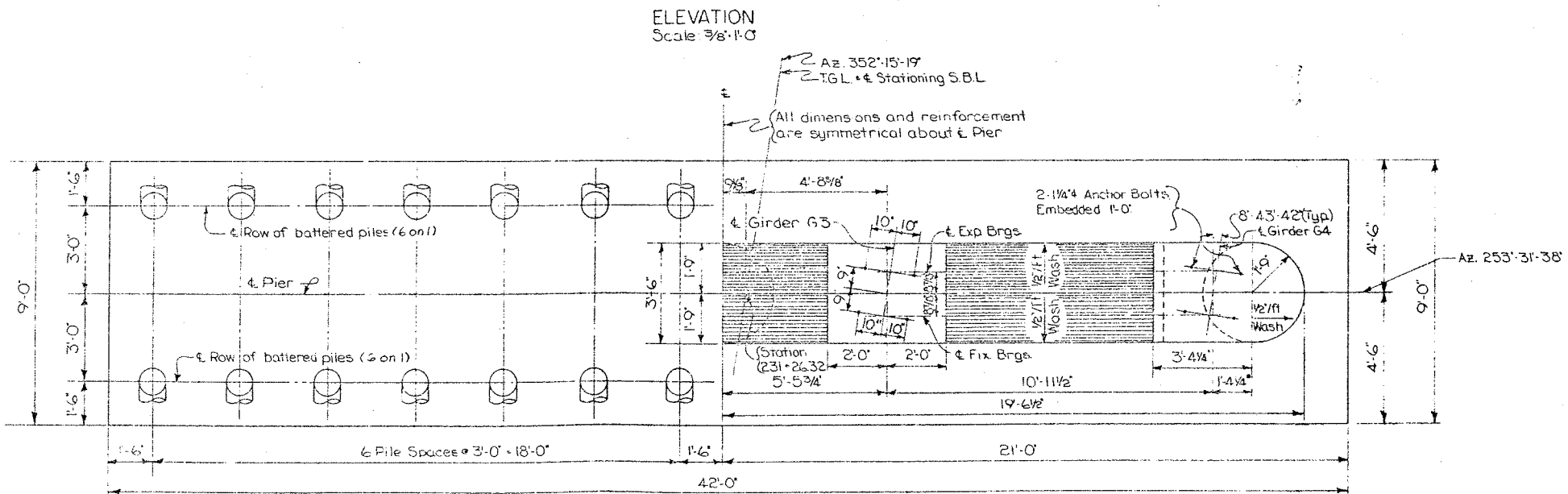
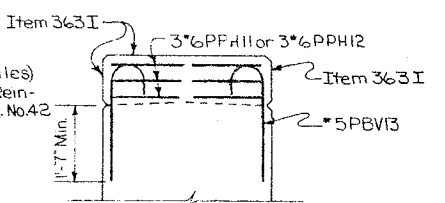
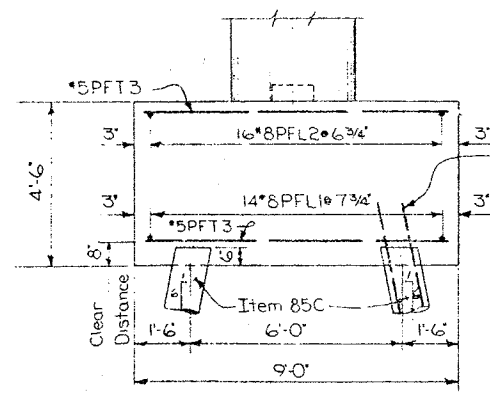
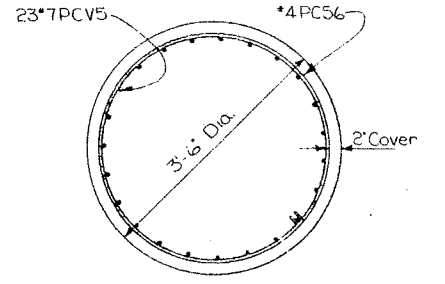
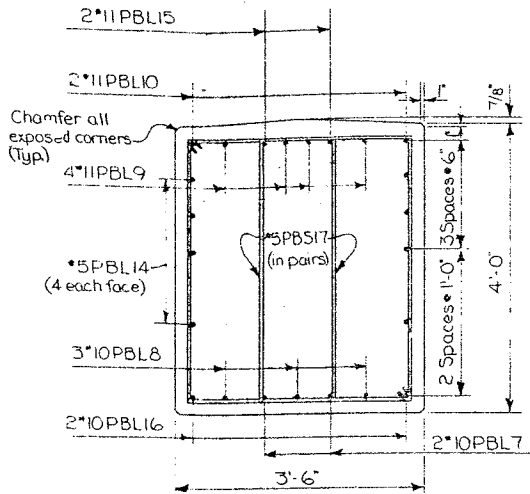
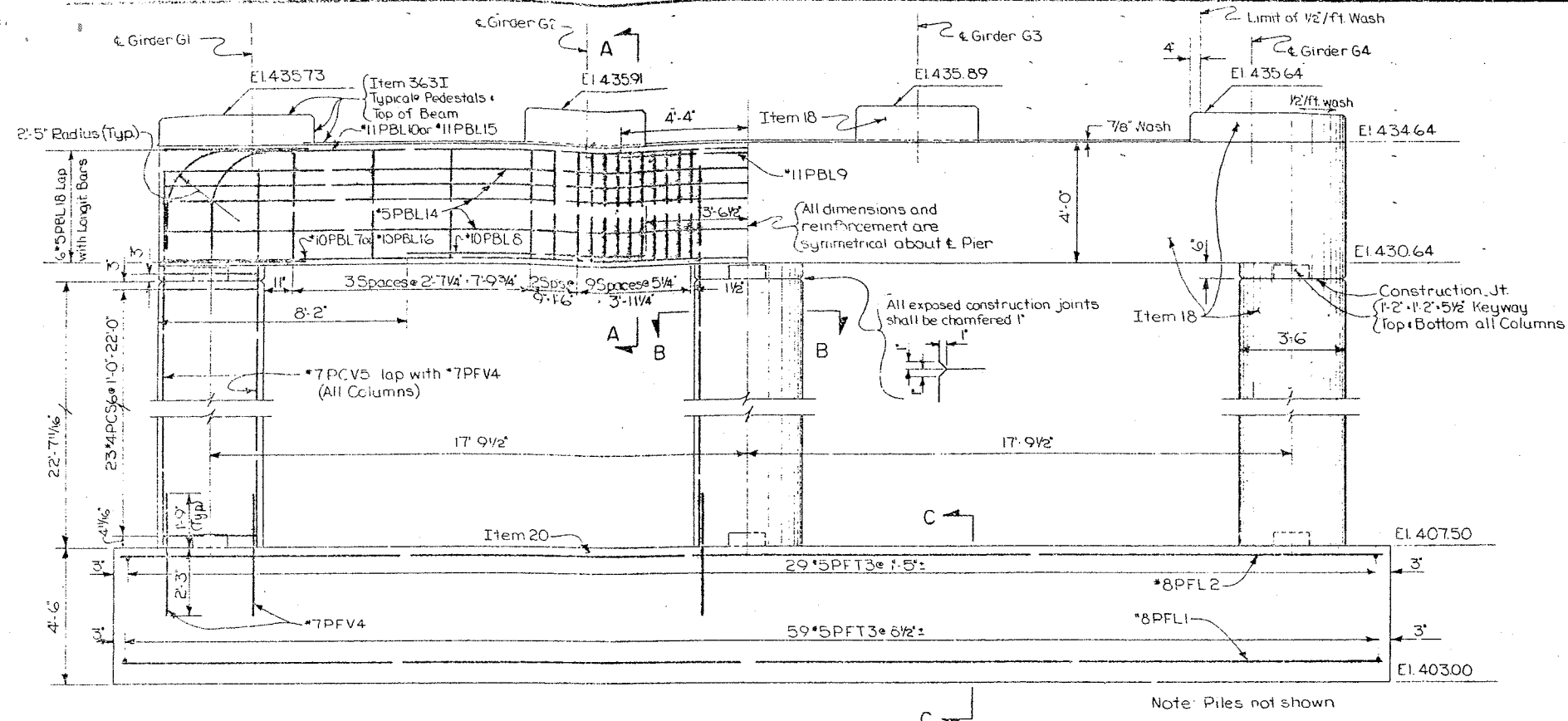
PROJECT ENGINEER: E. F. Feltner  
 IN CHARGE OF: E. Feltner  
 DESIGNED BY: E. Feltner  
 CHECKED BY: E. Feltner  
 DRAWING NO. 12 OF 50

BRIDGE NO. 2  
 INTERSTATE ROUTE 481 OVER DEWITT YARDS  
 PIERS 7 & 8 NBL & SBL, PIER 9 NBL  
 DRAWING NO. 12 OF 50



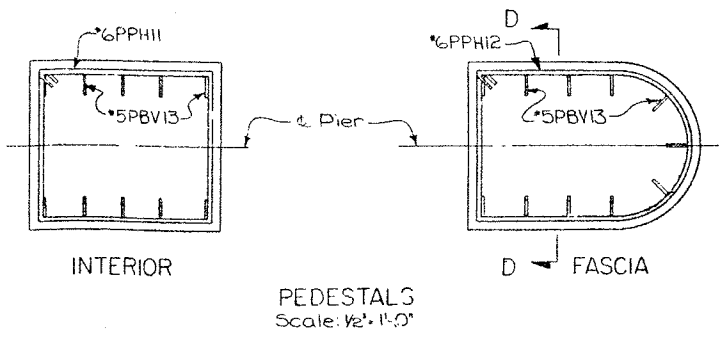
FED. RD. RES. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-3070-8(28) 1-431-2(116)	191	309

**INTERSTATE ROUTE CONNECTION 570**  
INTERSTATE INTERCHANGE (PHASE 2)  
CHENANGO COUNTY



**PIER CAP REINFORCEMENT**  
Scale 3/8" = 1'-0"

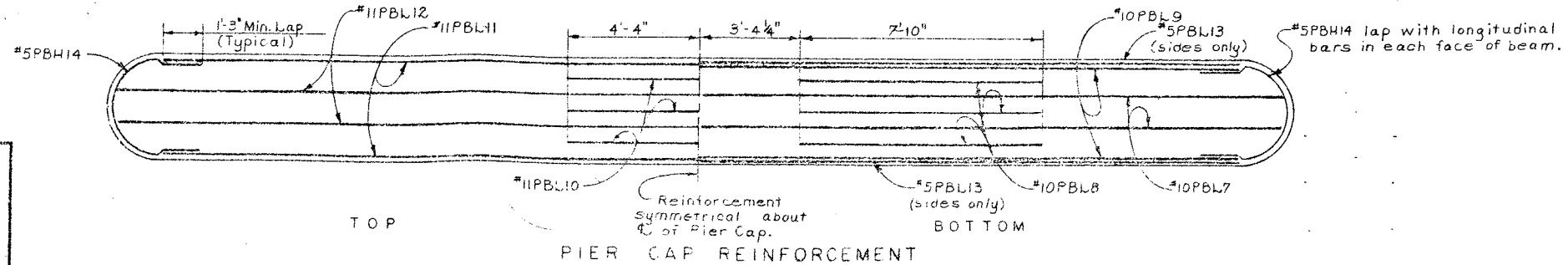
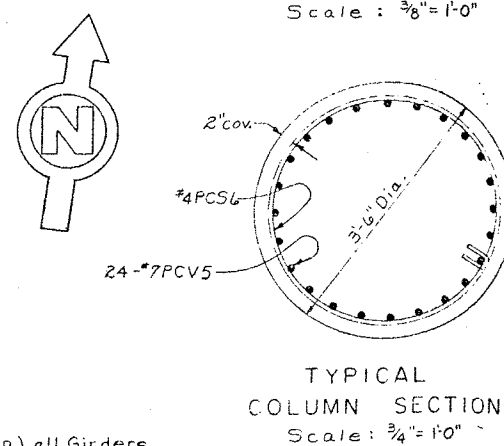
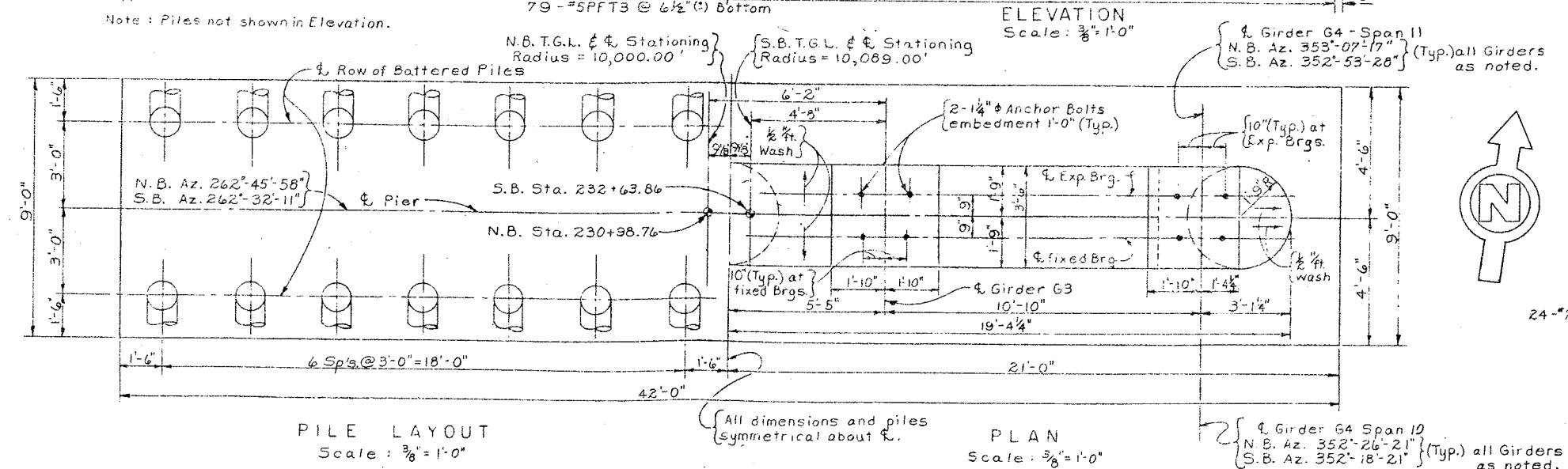
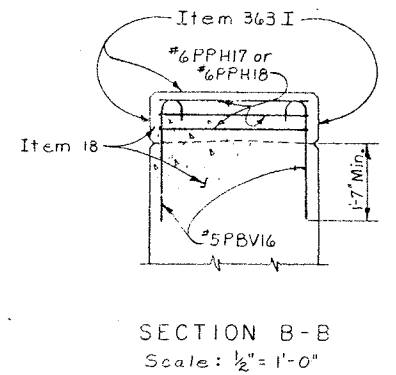
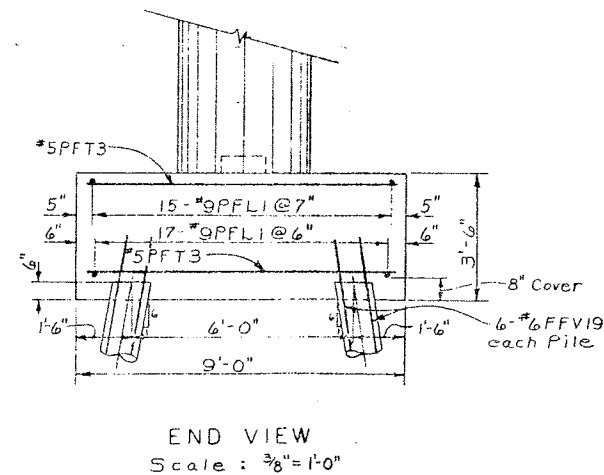
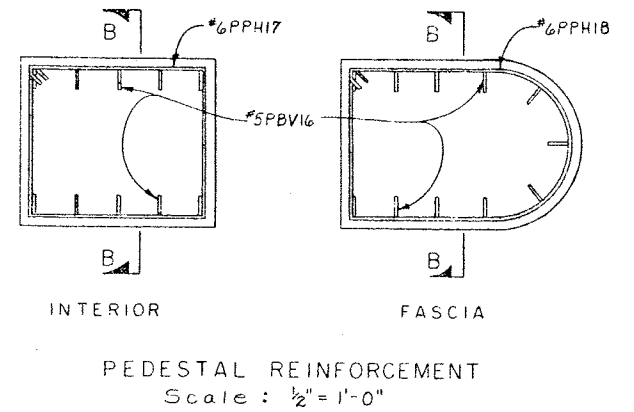
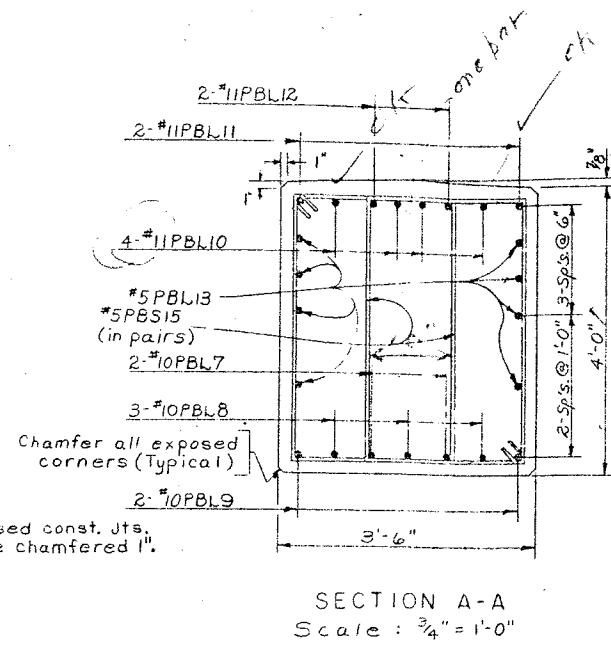
Notes: All footing reinforcement shall have a min. cover of 3" unless shown otherwise.  
All other reinforcement shall have a min. cover of 2" unless shown otherwise.  
Estimated length of concrete cast-in-place piles = 70'. For design purposes the pile load does not exceed 35 tons per pile.



BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER D'WITT YARDS  
PIER 9 (SB)

PROJECT ENGINEER: E.L. Parker  
IN CHARGE OF: E. Eckel  
DESIGNED BY: S. Rowe  
DESIGN CHECKED BY: N.A. Tappes  
REVIEWED BY: J. Dancy  
APPROVED BY: S. Rowe





ELEVATIONS		
LOCATION	SOUTHBOUND	NORTHBOUND
A	403.20	403.00
B	406.70	406.50
C	427.85	427.83
D	431.85	431.83
E	428.35	428.48
F	432.35	432.48
G	433.42	433.55
H	433.31	433.35
I	433.15	433.13
J	432.92	432.91

Notes :  
 1. All footing reinforcement shall have a min. cover of 3" unless otherwise shown.  
 2. All other reinforcement shall have a min. cover of 2" unless otherwise shown.  
 Estimated length of Cast-in-Place concrete piles = 70'-0" S.B. & 45'-0" N.B.  
 For Design Purposes the pile load does not exceed 35 Tons per Pile.  
 For details of Cast-in-Place Piles see Dwg. #42.

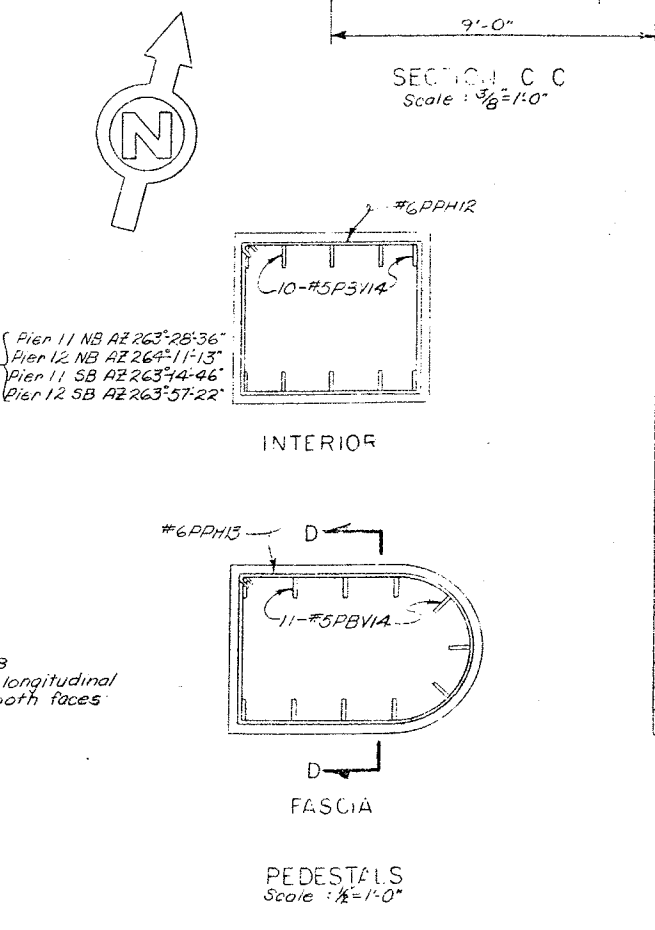
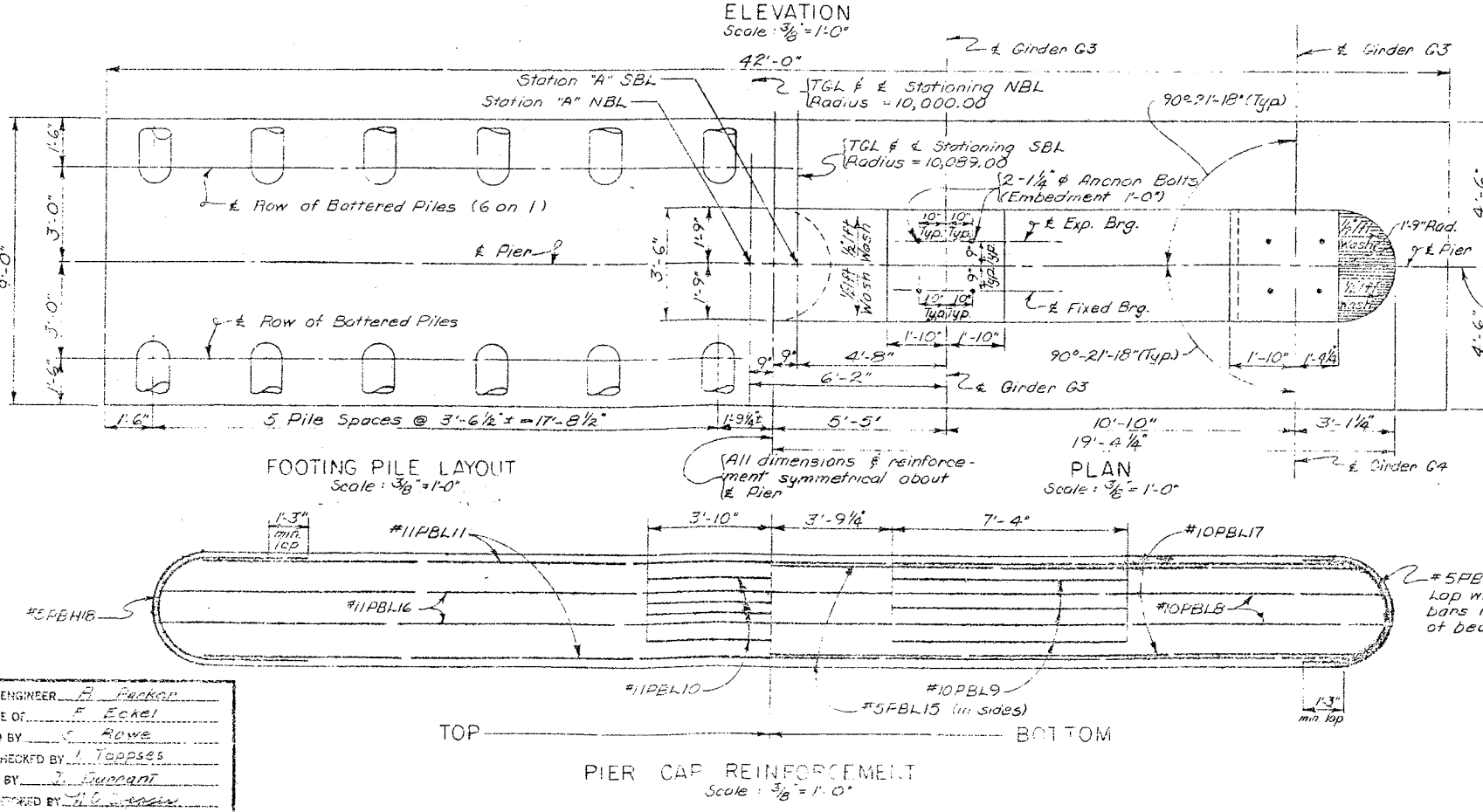
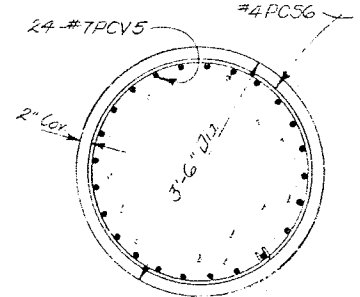
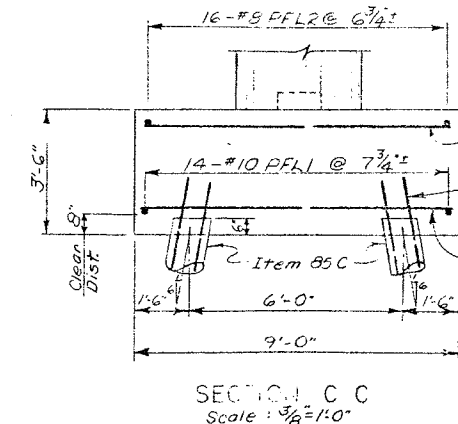
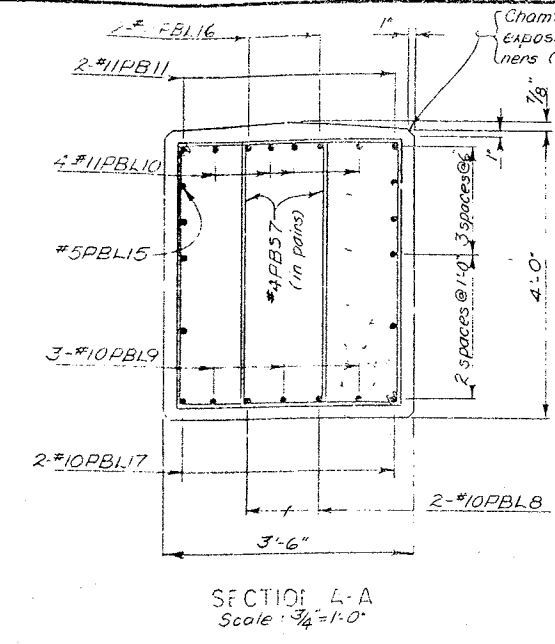
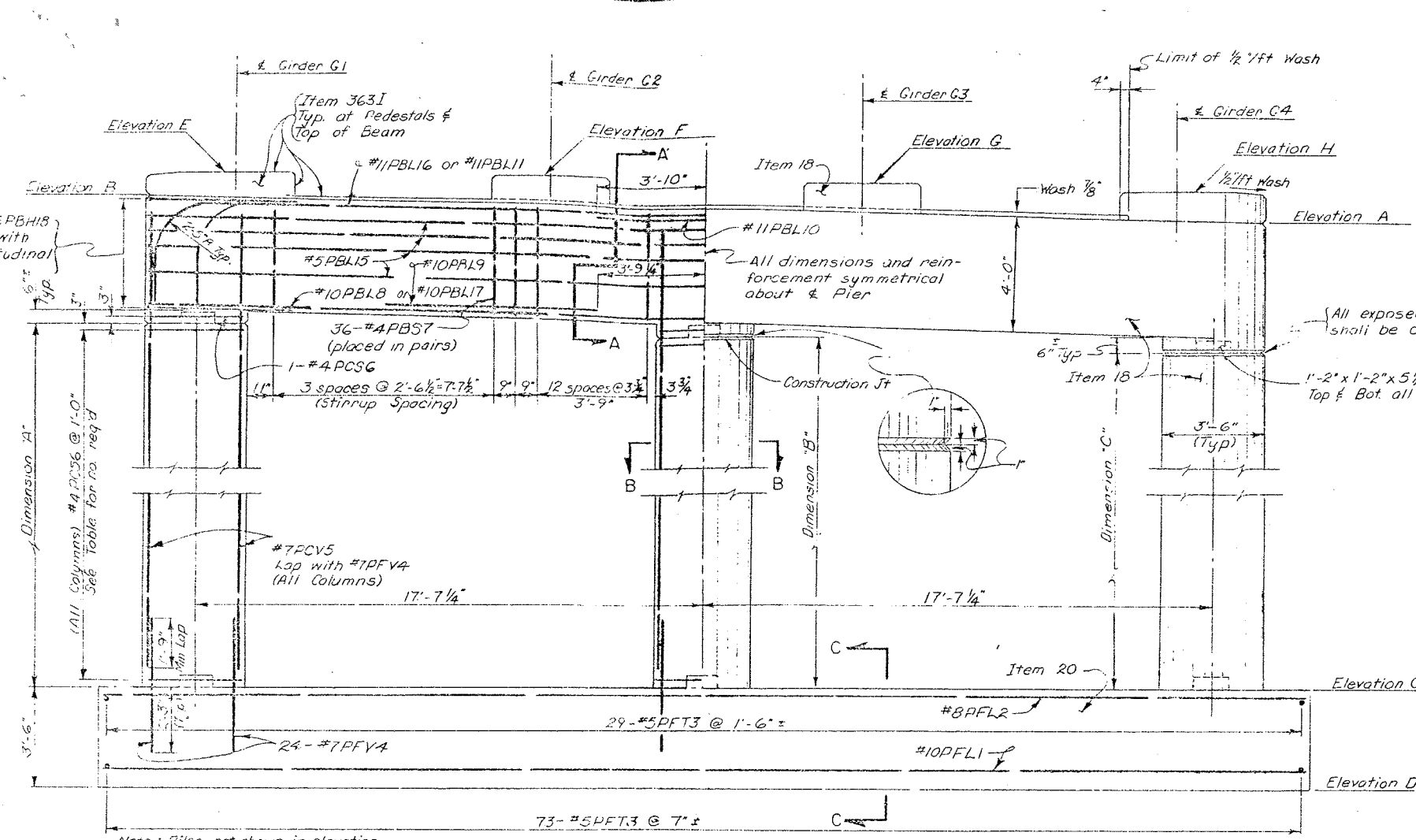
PROJECT ENGINEER R. Parker  
CHARGE OF E. Eckel  
DESIGNED BY B. Rowe  
DESIGN CHECKED BY N. A. Toppes  
ESTABLISHED BY L. C. Thompson  
DETAIL CHECKED BY Robert Rowe

BRIDGE NO. 2  
INTERSTATE ROUTE 451 OVER DEWITT YARDS  
PIER 10 (SB & NB)



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-690-3(28) 1-481-2(118)	193	309

**INTERSTATE ROUTE CONNECTION 570**  
BUTTERNUT INTERCHANGE (PHASE 2)  
CHONDAGA COUNTY



Note: All footing reinforcement shall have a min. cover of 3" unless otherwise shown. All other reinforcement shall have a min. cover of 2" unless otherwise shown. Estimated length of Cast-In-Place Concrete Piles = 65' of Piers 11 & 12 NB & SB. For design purposes the Pile Load does not exceed 35 Tons Per Pile.

DESCRIPTION	NORTHBOUND		SOUTHBOUND	
	PIER 11	PIER 12	PIER 11	PIER 12
ELEVATION A	429.04	425.81	429.03	425.77
" B	429.72	426.49	429.71	426.44
" C	406.30	406.40	406.30	406.40
" D	402.80	402.90	402.80	402.90
" E	430.72	427.49	430.71	427.45
" F	430.49	427.26	430.48	427.22
" G	430.27	427.04	430.26	427.00
" H	430.04	426.81	430.03	426.77
DIM 'A'	18.92	15.59	18.71	15.54
" B'	18.58	15.25	18.57	15.21
" C'	18.24	14.91	18.23	14.87
NO HOOPS	19 Per Col.	16 Per Col.	19 Per Col.	16 Per Col.
STATION 'A'	232+22.76	233+46.76	233+88.86	235+13.86

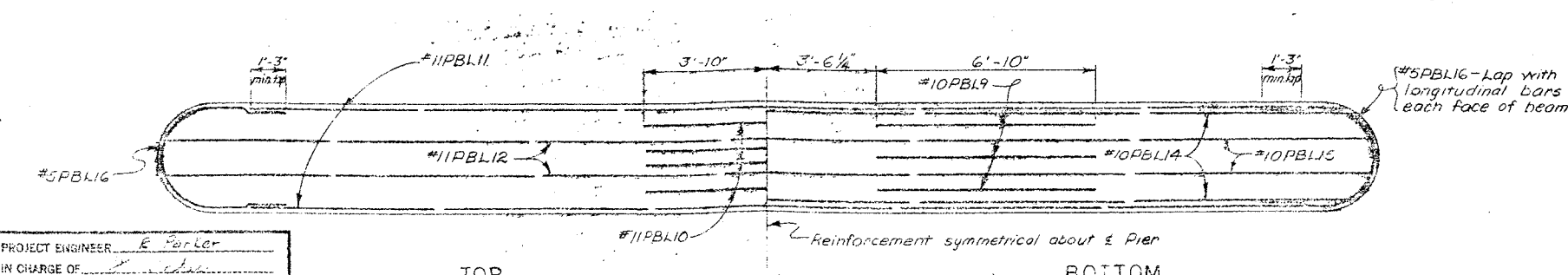
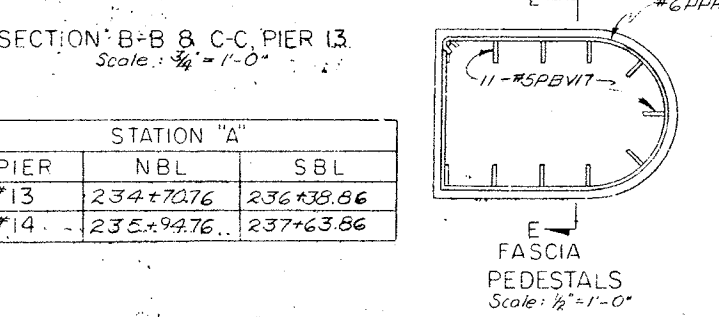
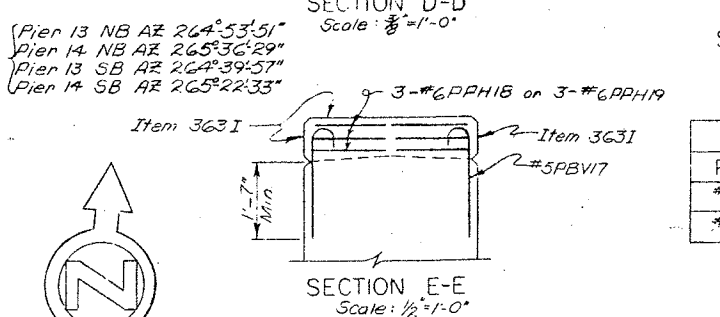
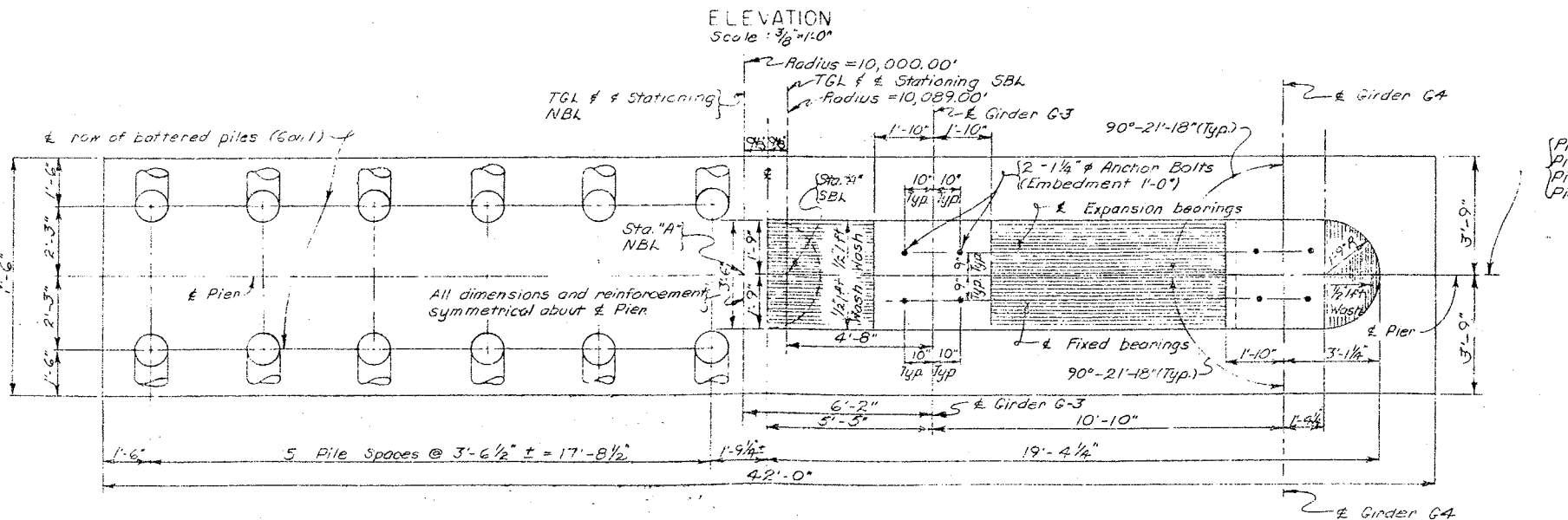
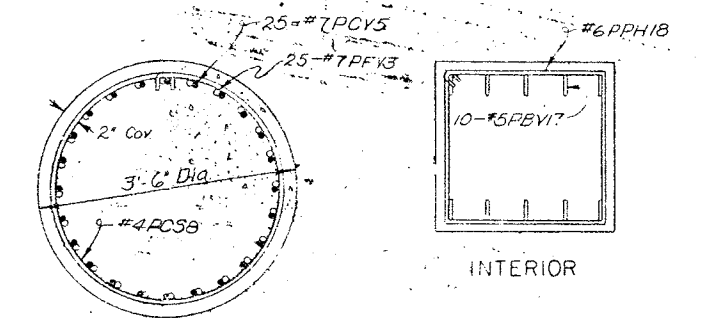
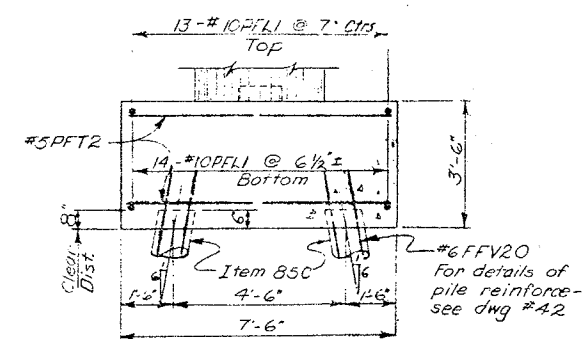
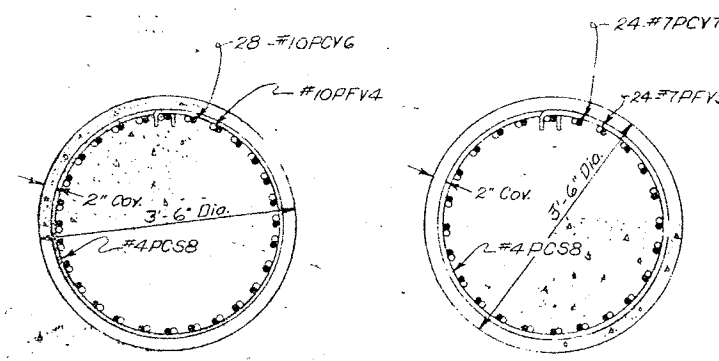
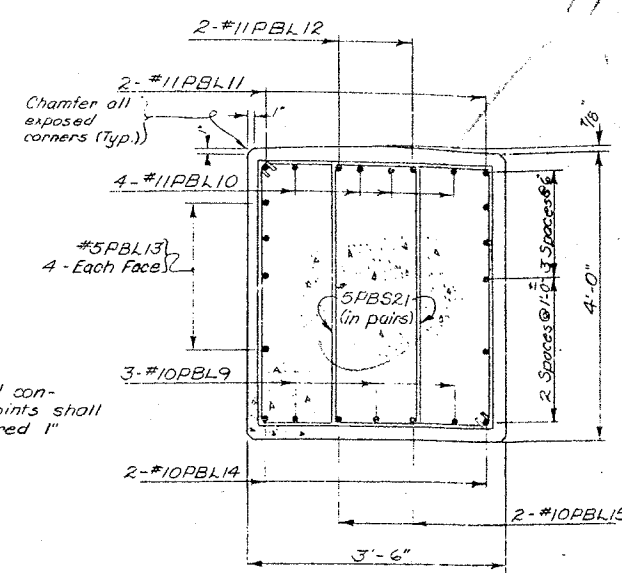
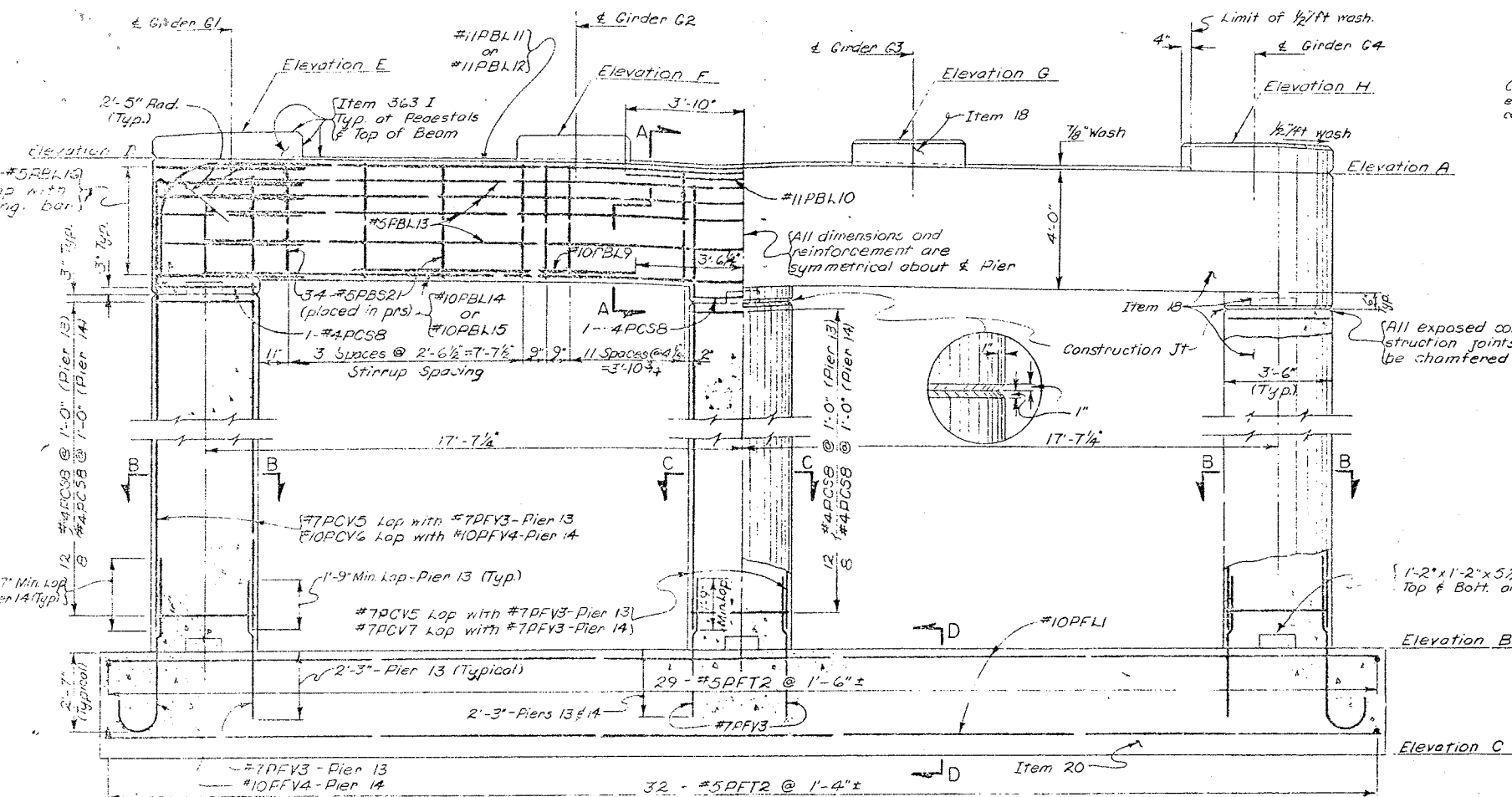
BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS  
PIERS 11 & 12 (N.B. & S.B.)  
DRAWING NO. 15 OF 30

PROJECT ENGINEER: R. F. Fickler  
CHARGE OF: F. Eckel  
DESIGNED BY: C. Rowe  
DESIGN CHECKED BY: J. Toppas  
DRAWN BY: J. Buccant  
SCALE:  $\frac{3}{8}'' = 1'-0''$



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-580-3(28) 1-481-2(116)	194	309

**INTERSTATE ROUTE CONNECTION S70**  
SUTHERLY INTERCHANGE (PHASE 2)  
ONONDAGA COUNTY



DESCRIPTION	NORTHBOUND		SOUTHBOUND	
	PIER 13	PIER 14	PIER 13	PIER 14
ELEVATION A	422.22	418.44	422.14	419.36
" B	406.70	407.00	406.70	407.00
" C	403.20	403.50	403.20	403.50
" D	422.90	419.12	422.81	419.03
" E	423.89	420.12	423.81	420.03
" F	423.67	419.90	423.59	419.81
" G	423.44	419.67	423.36	419.58
" H	423.22	419.44	423.14	419.36

Note:  
All footing reinforcement shall have a min. cover of 3" unless otherwise shown.  
All other reinforcement shall have a min. cover of 2" unless otherwise shown.  
Estimated length of Cast-in-Place Concrete Piles = 65' Pier 13 SB, 60' Pier 13 NB & 60' Piers 14 NB & SB  
For design purposes the pile load does not exceed 35 tons per pile.

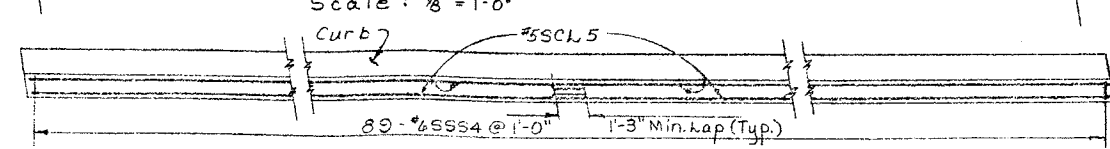
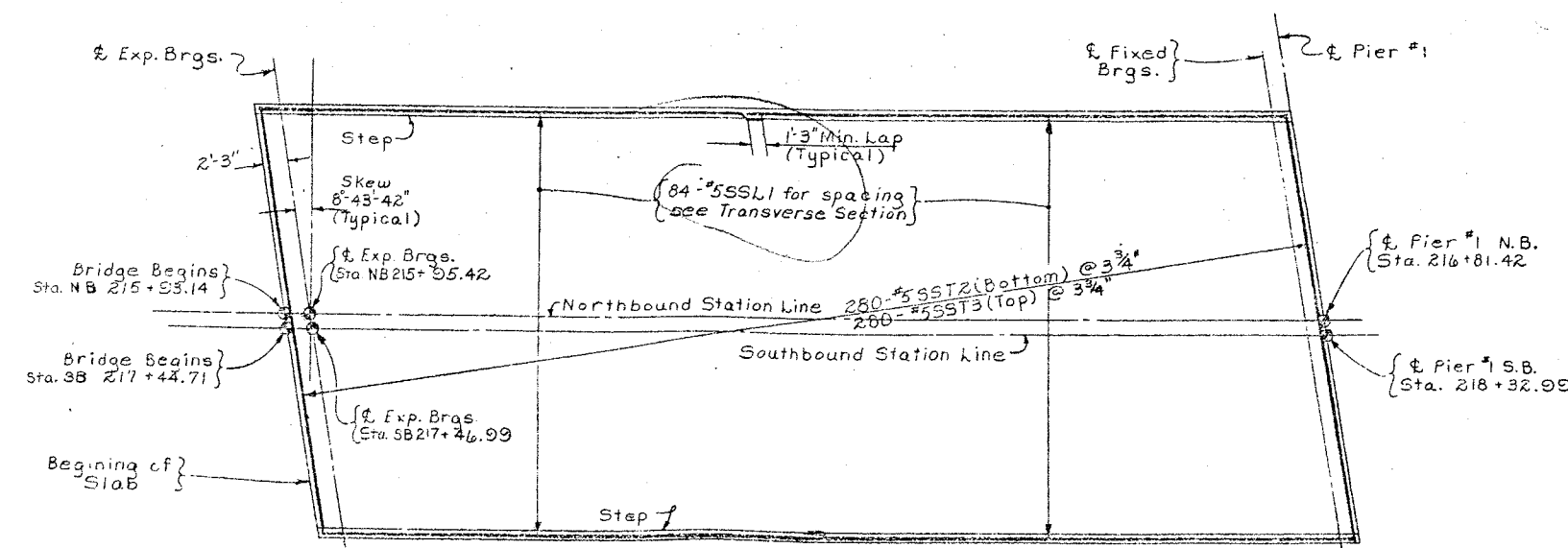
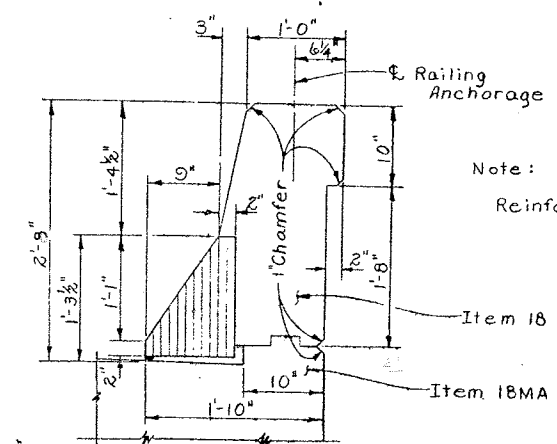
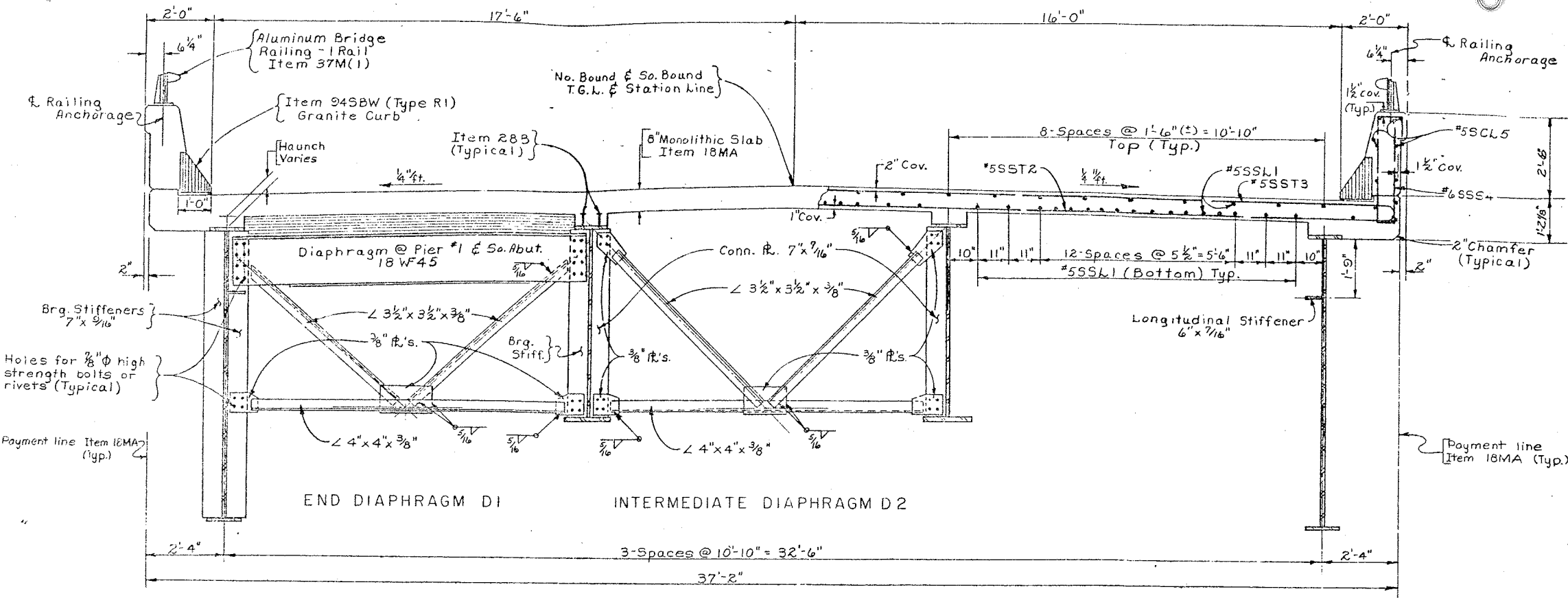
PROJECT ENGINEER: E. Porter  
IN CHARGE OF: S. Kove  
DESIGNED BY: S. Kove  
DESIGN CHECKED BY: S. Kove  
DETAIL CHECKED BY: S. Kove

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS  
PIERS #13 & #14 (NB & SB)  
DRAWING NO. 16 OF 50



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-690-3(23) 1-481-2(116)	195	308

**INTERSTATE ROUTE CONNECTION 570**  
BUFFALO INTERCHANGE (PHASE 2)  
ONONDAGA COUNTY



Notes:

Holes for 7/8"  $\phi$  rivets or high strength bolts may be omitted and welding substituted if contractor so elects. When the contractor elects to substitute the welded connection for the bolted connection shown, the amount of welding used shall be equivalent in strength to the bolts removed.

For details of Railing, Railing Anchorage and Granite Curbs see Dwg. # 35 & 36.  
For Joint Details see Dwg. # 33.

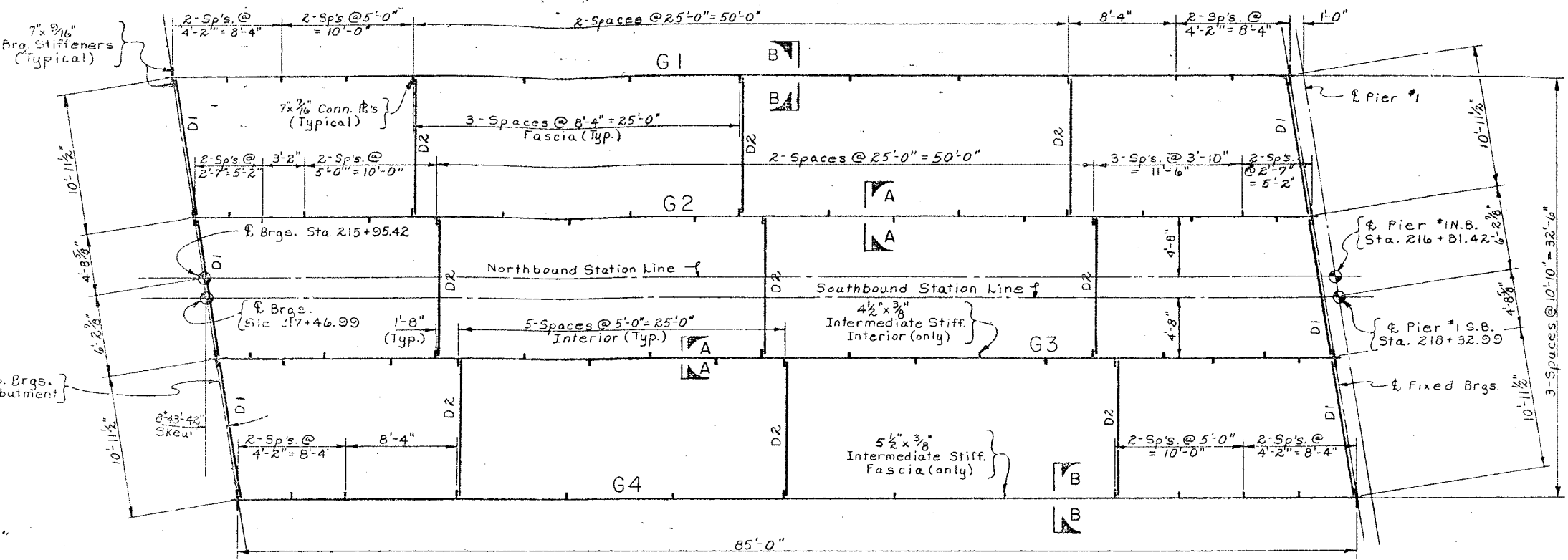
PROJECT ENGINEER: R. Parker  
IN CHARGE OF: F. Fokai  
DESIGNED BY: N. Topps  
DESIGN CHECKED BY: R. Thibodeau  
DETAIL CHECKED BY: J. C. Thompson

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

TRANSVERSE SECTION & SLAB PLAN  
SPAN 1 N.B. & S.B.

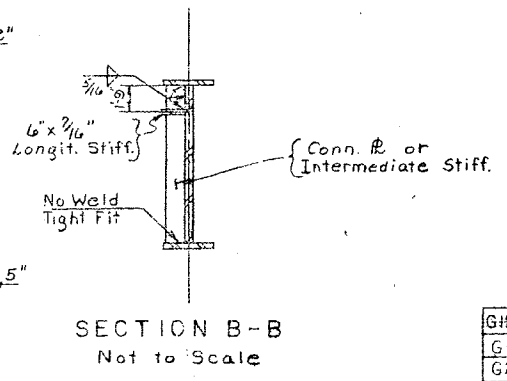
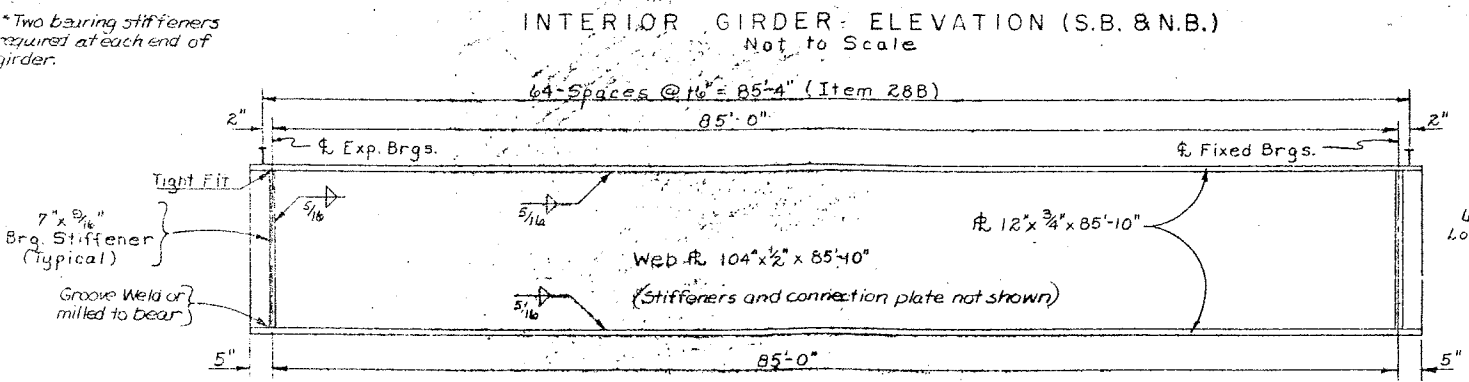
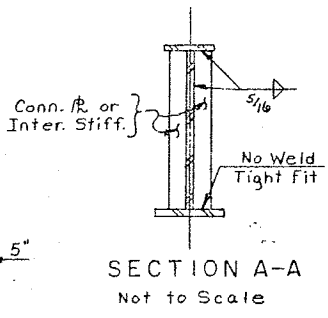
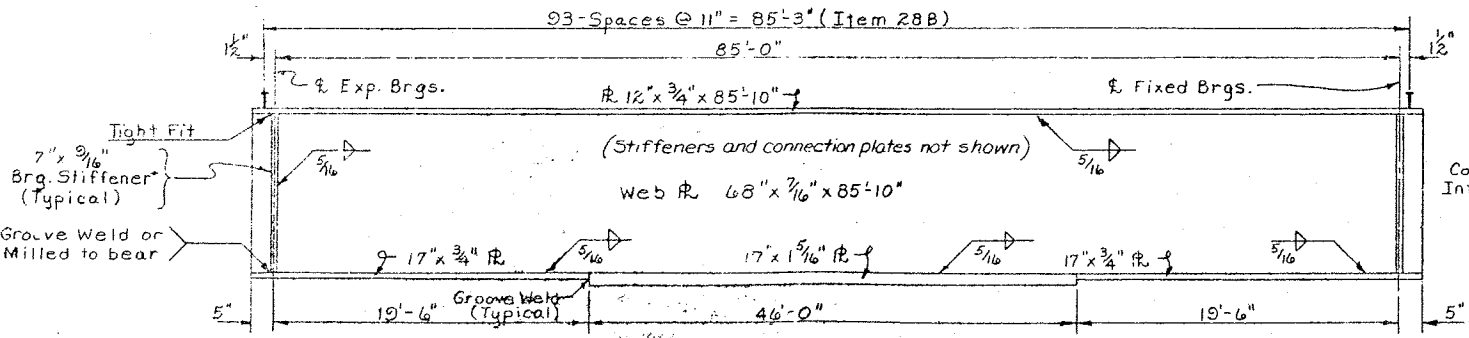
DRAWING NO. 17 OF 20



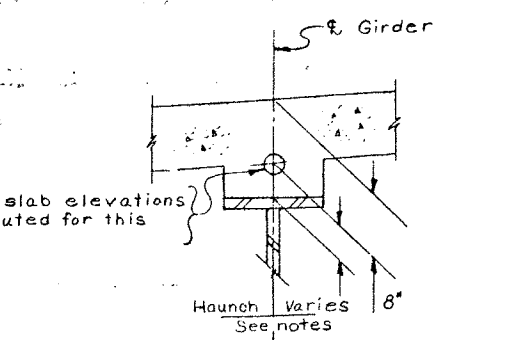


see Transverse Section for Diaphragms.  
**STEEL LAYOUT (S.B. & N.B.)**  
Scale:  $\frac{3}{16}'' = 1'-0''$

**Notes:**  
Web and flanges shall be ASTM designation A36 steel.  
Stiffeners, Connection Plates, Diaphragm and Gusset Plates shall be ASTM designation A36 steel.  
For Bearing Details see Drawing Nos. 42 & 43.  
Stud Shear Connectors shall be 6" high and placed in pairs. See Drawing No. 42 for additional details.  
For Height of Haunch see Table of Haunch Heights Drawing No. 34.



GIRDER	SPAN	THEO. BOTTOM OF SLAB ELEVATIONS			DEFLECTIONS (FT.)			CAMBER		
		\$ Exp. Brgs.	\$ Span	\$ Fix. Brgs.	STEEL SLAB	S.D.L.	TOTAL	(ft.)	(ft.)	(in.)
G1 N.B.	1	446.55	447.12	447.65	.01	.03	.01	.05	.02	.07 $\frac{1}{8}$
G2 N.B.	1	446.80	447.40	447.90	.02	.08	.02	.12	.02	.14 $1\frac{1}{16}$
G3 N.B.	1	446.79	447.36	447.89	.02	.08	.02	.12	.02	.14 $1\frac{1}{16}$
G4 N.B.	1	446.59	447.16	447.68	.01	.03	.01	.05	.02	.07 $\frac{1}{8}$
G1 S.B.	1	446.34	446.92	447.46	.01	.03	.01	.05	.02	.07 $\frac{1}{8}$
G2 S.B.	1	446.59	447.17	447.71	.02	.08	.02	.12	.02	.14 $1\frac{1}{16}$
G3 S.B.	1	446.64	447.22	447.76	.02	.08	.02	.12	.02	.14 $1\frac{1}{16}$
G4 S.B.	1	446.44	447.02	447.55	.01	.03	.01	.05	.02	.07 $\frac{1}{8}$



V.C.C. = Vertical Curve Correction  
S.D.L. = Superimposed Dead Load, includes weight of railing.

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DE WITT YARDS  
**SPAN 1 (S.B. & N.B.)**

PROJECT ENGINEER: F. Parker  
IN CHARGE OF: F. Eckel  
DESIGNED BY: A. Toomes  
DESIGN CHECKED BY: F. Tumble  
DRAWN BY: J. C. Thompson  
APPROVED BY: J. C. Thompson



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-690-8029 1-481-2(116)	197	309

**INTERSTATE ROUTE CONNECTION 570**  
**BUTTERNUT INTERCHANGE (PHASE 2)**  
**ONDAGA COUNTY**

or RIVETS

Note: Holes for 7/8" high strength bolts may be omitted and welding substituted if the contractor so elects. When the contractor elects to substitute the welded connection for the bolted connection shown, the amount of welding used shall be equivalent in strength to the bolt omitted.

For precast railing details see drawing no. 35 & 36

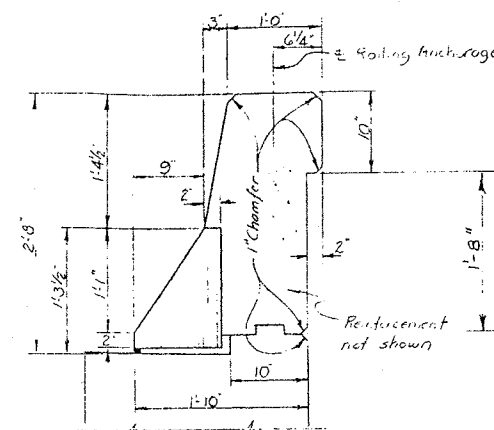
For granite curb details see drawing no. 35

Steel meeting the minimum requirements of A.S.T.M. Designation A36 shall be used for all intermediate stiffeners, longitudinal stiffeners, connection plates, bearing stiffeners, diaphragms, bracing, & 4M lateral bracing (except gusset plates), trough support angles, finger joint support plates and open armored joint support plates at the south end of span 2.

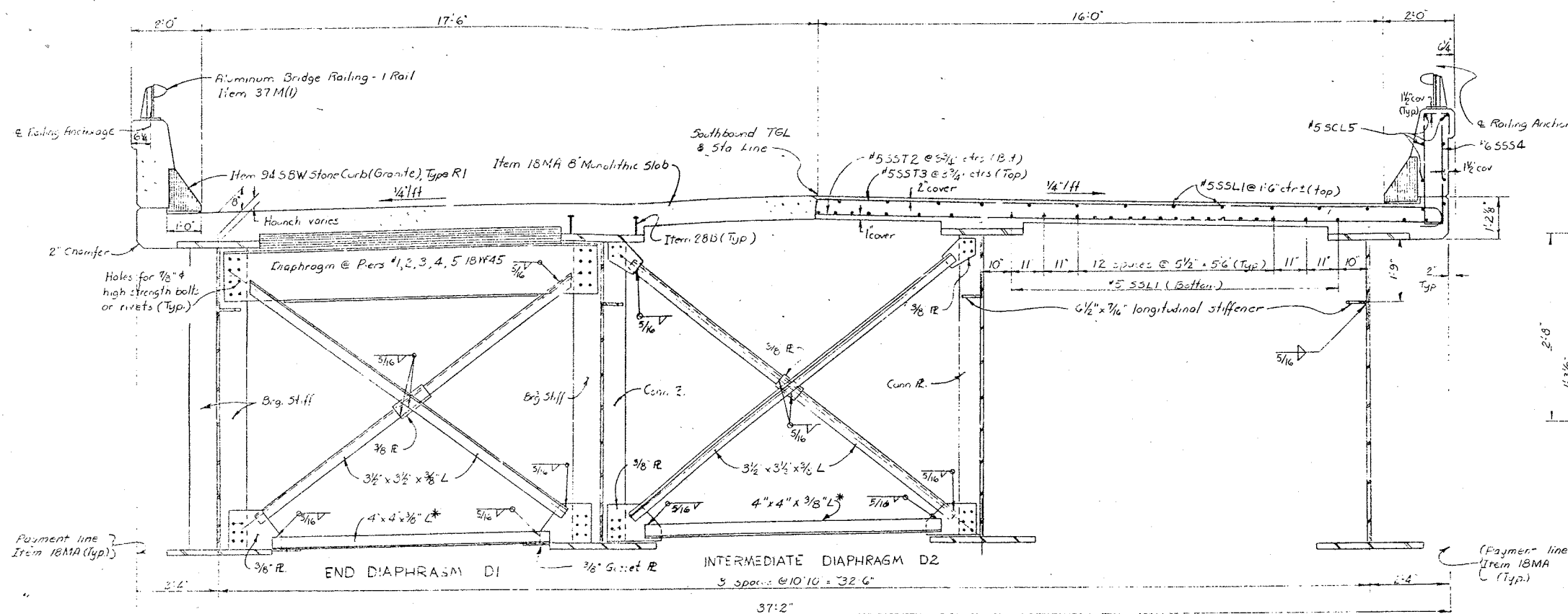
Finger joint plates, vertical side plates, and deflector plates at finger joints, and armoring angle, and side plates at open joint at south end of span 2 shall be corrosion resistant steel A.S.T.M Designation A242.

The webs of the girders shall be A.S.T.M. Designation A441.

See details of individual spans for type of steel to be used in girder flanges and bottom lateral gusset plates.



PARAPET DETAIL  
Scale 1" = 1'-0"

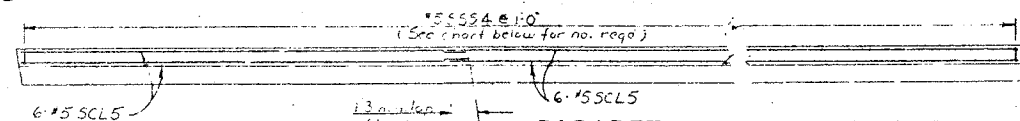


\* Connect bottom strut of diaphragm to horizontal gusset plate in bays where there are bottom laterals. Connect bottom strut of diaphragm to vertical gusset plates in bays where there are no bottom laterals.

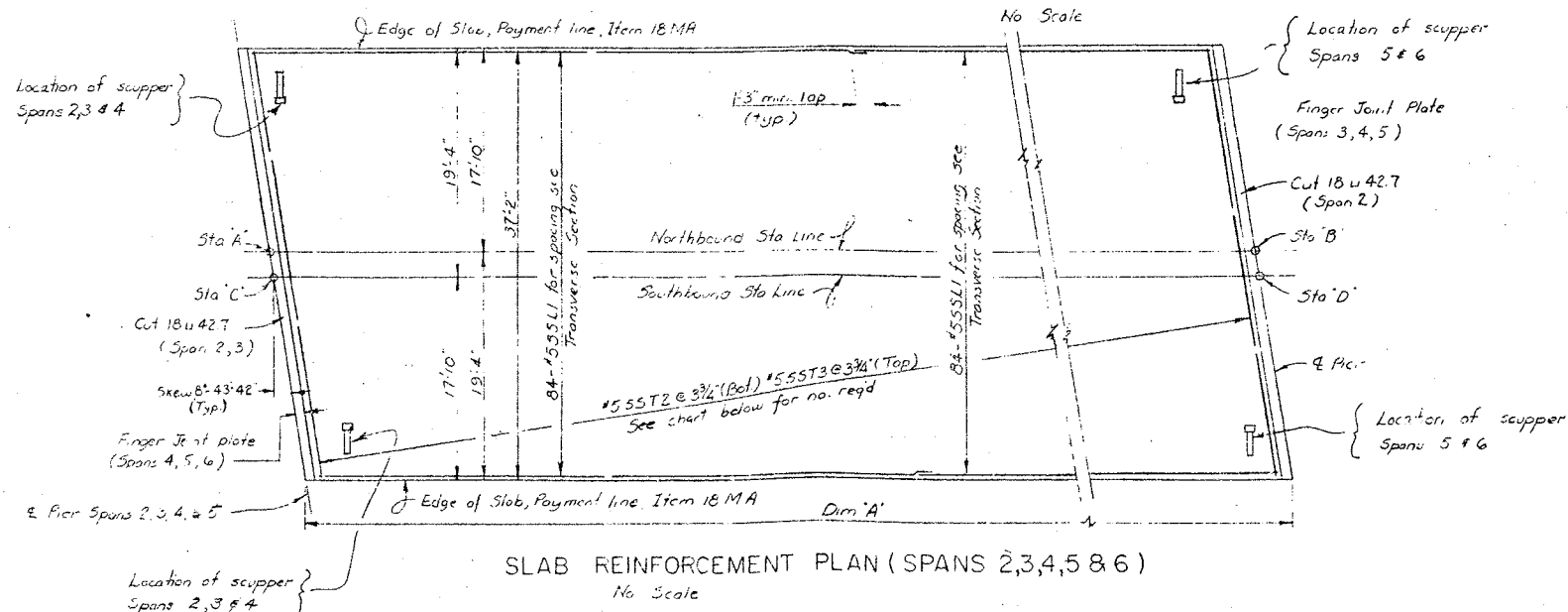
TRANSVERSE SECTION (SPANS 2,3,4,5&6)

Scale  $\frac{1}{2}'' = 1'$

Note: Southbound Lane looking up station #1000.  
Northbound Lane looking down station #1000.



PARAPET REINFORCEMENT PLAN



SLAB REINFORCEMENT PLAN ( SPANS 2,3,4,5 & 6 )

No Scale

PROJECT ENGINEER	E. SARKIS	SPAN	DIM "A"	STA A	STA B	STA C	STA D	SST 2 & SST 3 NO. REQ'D	SSS4 NO. REQ'D
IN CHARGE OF	E. SARKIS	2	156'-2.58' ± NB	216+81.42	216+37.53	215+32.99	219+69.15	497	157
DESIGNED BY	E. SARKIS	3	171'-2.58' ± NB	218+137.59	220+08.76	219+69.15	221+60.32	544	172
DESIGN CHECKED BY	J. J. PEPES	4	198'-0" SE ± NB	220+08.76	221+60.76	221+60.32	223+58.32	623	198
DETAILED BY	R.H. Smith	5	198'-0" SE ± NB	222+06.76	224+04.76	223+58.32	225+56.32	623	198
DETAIL CHECKED BY	E. SARKIS	6	198'-0" SE ± NB	224+04.76	226+02.76	225+58.32	227+54.32	629	198

BRIDGE NO. 2

INTERSTATE ROUTE 481 OVER DEWITT YARDS

TRANSVERSE SECTION & SLAB PLAN

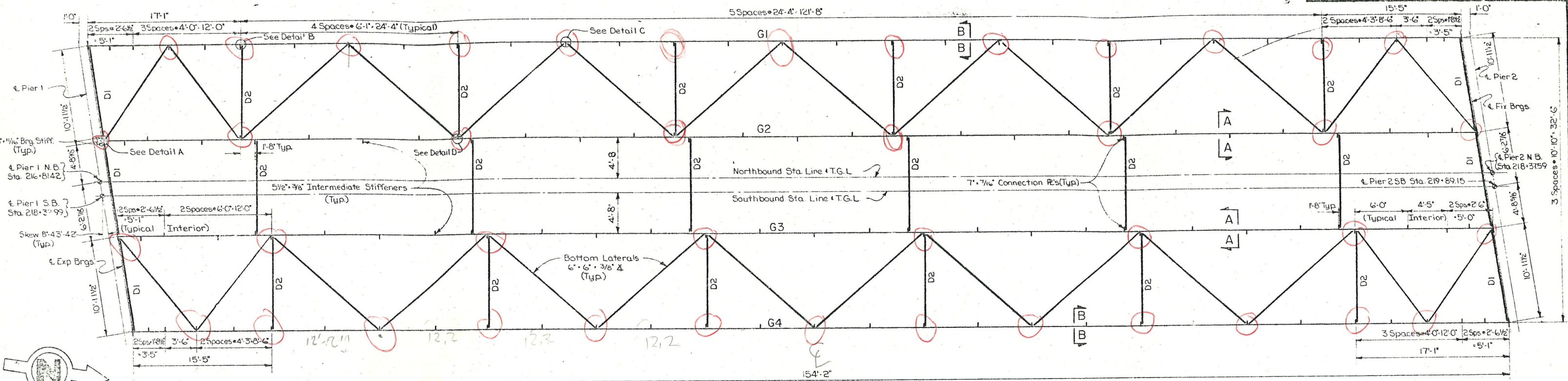
SPANS 2,3,4,5&6 NB&SB

DRAWING NO. 19 OF 50



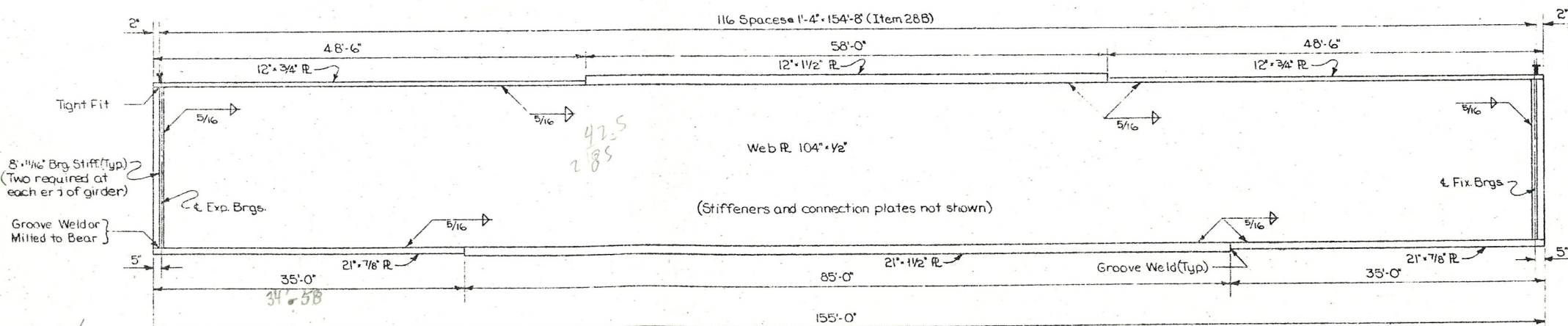
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-481-2(118)	148	302

INTERSTATE ROUTE 381 OVER DEWITT YARDS  
SOUTHERN ALBANY (P.L. 2)  
ONEIDA COUNTY

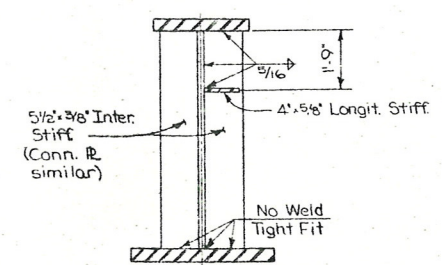


Notes: See Transverse Section for Diaphragms and Lateral Bracing.  
See Drawing No. 22 for Cross Lateral Bracing Details A, B, C & D.

STEEL FRAMING PLAN NB & SB  
Scale: 3/16" = 1'-0"

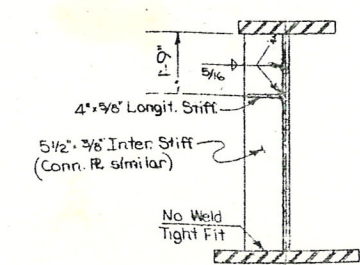


FASCIA & INTERIOR GIRDER ELEVATION NB & SB  
Not to Scale



SECTION A-A  
Not to Scale

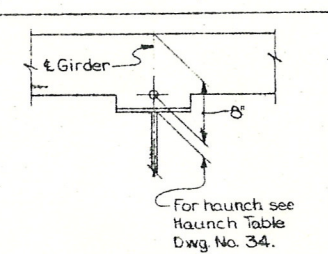
Notes: Web and flanges shall be A.S.T.M. designation A441 Steel.  
Stiffeners, connection plates, diaphragms, lateral bracing and gusset plates shall be A.S.T.M. designation A36 Steel.  
For details of bearings see Dwg. No. 42 & 43.  
Stud Shear Connectors shall be 6' high.



SECTION B-B  
Not to Scale

GIRDER	SPAN	THEO. BOTTOM OF SLAB ELEVATIONS			DEFLECTIONS (FT.)			CAMBER	
		EXPER. BRGS.	SPAN	FIX. BRGS.	SLAB	TOT.	V.C.C.	TOTAL	(IN.)
G1 NB	2	447.67	448.52	449.28	.08	.31	.07	.38	4 3/16
G2 NB	2	447.92	448.76	449.47	.08	.39	.07	.46	5 1/8
G3 NB	2	447.91	448.75	449.45	.08	.39	.07	.46	5 1/8
G4 NB	2	447.70	448.54	449.24	.08	.31	.07	.38	4 3/16
G1 SB	2	447.48	448.35	449.08	.08	.31	.07	.38	4 3/16
G2 SB	2	447.73	448.60	449.32	.08	.39	.07	.46	5 1/8
G3 SB	2	447.78	448.65	449.37	.08	.39	.07	.46	5 1/8
G4 SB	2	447.58	448.44	449.16	.08	.31	.07	.38	4 3/16

V.C.C. - Vertical Curve Correction  
S.D.L. - Superimposed Dead Load, includes weight of railing.



PROJECT ENGINEER: R.L. Parker  
CHECKED BY: F. Eckel  
DESIGNED BY: N.A. Torreses  
DESIGN CHECKED BY: R. Thimble  
DRAWN BY: J.F. Darcy  
TITLE: BRIDGE NO. 2

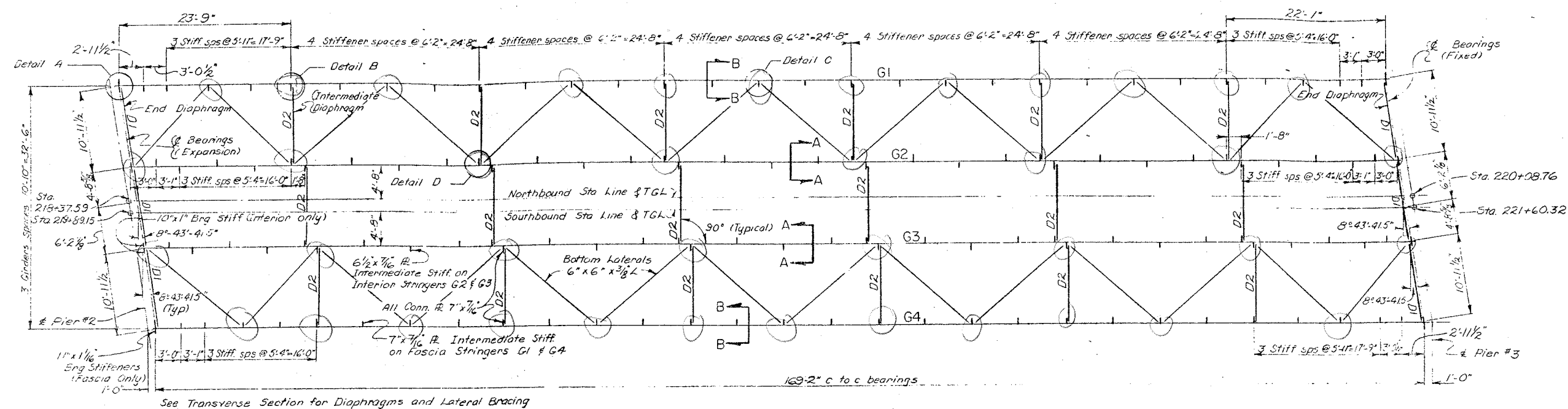
BRIDGE NO. 2  
INTERSTATE ROUTE 381 OVER  
DEWITT YARDS

SPAN 2 FRAMING PLAN



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-690-3(28) 1-481-2(116)	199	303

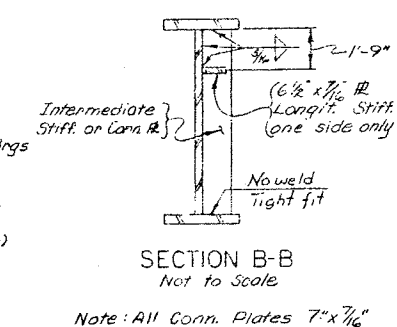
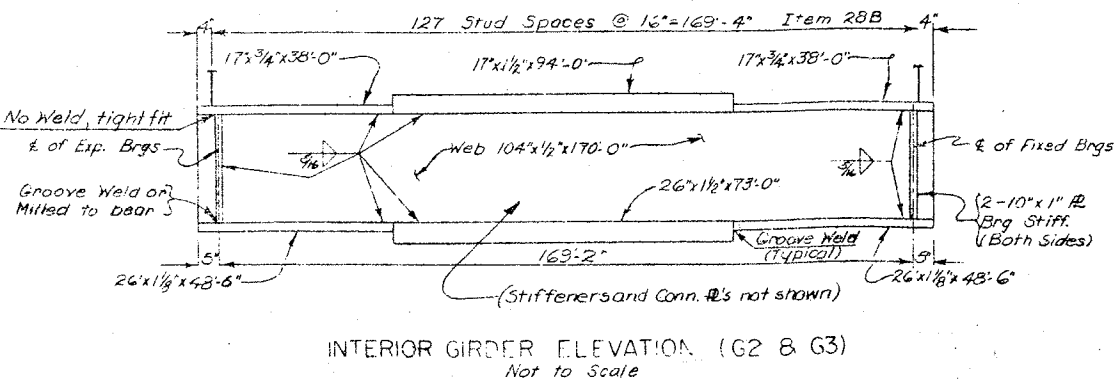
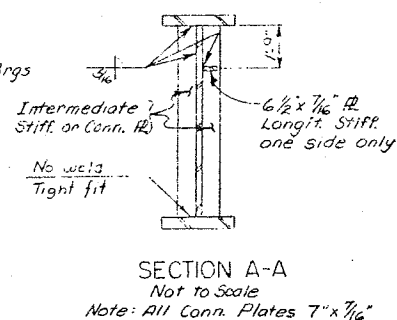
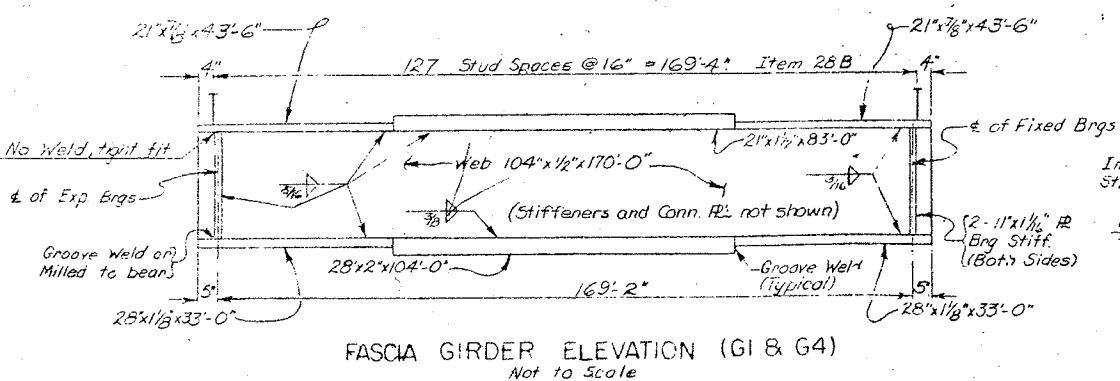
**INTERSTATE ROUTE CONNECTION 570**  
BUTTERNUT INTERCHANGE (PHASE 2)  
CHENANGO COUNTY



Note: Stud Shear Connectors shall be 6" high.

For Bearings Details see Drawing # 42 and 43  
For Joint Details see Drawing # 31  
For Trough Details see Drawing # 39

STEEL LAYOUT (SPAN 3 NB & SB)  
Scale  $\frac{1}{8}" = 1'-0"$



GIRDER	NORTHBOUND			SOUTHBOUND			DL DEFLECTION				CAMBER	
	THEO. BOT. OF SLAB EL.	EQ. BOT. OF SLAB EL.	NO. BRG	THEO. BOT. OF SLAB EL.	EQ. BOT. OF SLAB EL.	NO. BRG	STEEL (FT.)	SLAB (FT.)	S.D.L. (FT.)	TOTAL (FT.)	V.C.C. (FT.)	TOTAL (FT.)
SPAN 3	EQ. BRG	EQ. SPAN	EQ. NO. BRG	EQ. BRG	EQ. SPAN	EQ. NO. BRG						
G1	449.24	449.95	450.29	449.10	449.74	450.20	.11	.15	.11	.37	.08	.45 5 3/8
G2	449.48	450.09	450.52	449.34	449.97	450.44	.12	.29	.04	.45	.08	.53 6 3/8
G3	449.46	450.07	450.50	449.39	450.02	450.48	.12	.29	.04	.45	.08	.53 6 3/8
G4	449.25	449.85	450.28	449.18	449.80	450.26	.11	.15	.11	.37	.08	.45 5 3/8

S.D.L. = superimposed dead load, includes weight of parapet and railing.  
V.C.C. = vertical curve correction

Note:  
a. The connection plate shall be prepared and welded as a single bevel groove weld as shown in Detail #1. It shall then be Air Carbon-Arc gouged from the second side into sound weld metal and then welded as detailed. All welding shall be in the flat or 'downhand' position.  
b. The plate may be of any shape that will provide after welding, cutting, and finish grinding a smooth transition from the flange edge at a minimum radius of 12".  
c. Both the connection plate and flange are to be the same type of steel.  
d. Field welding to the connection plate will not be permitted.

DETAIL #1

DETAIL #2

LATERAL BRACING DETAILS  
Not to Scale

For additional details of lateral bracing see drawing No. 22

The webs, flanges and gusset plates for bottom lateral bracing for the Span 3 girders shall be A.S.T.M. Designation A441 steel. Stiffeners, diaphragms, bearings, and bottom lateral bracing (except gusset plates) shall be A.S.T.M. A36 steel.

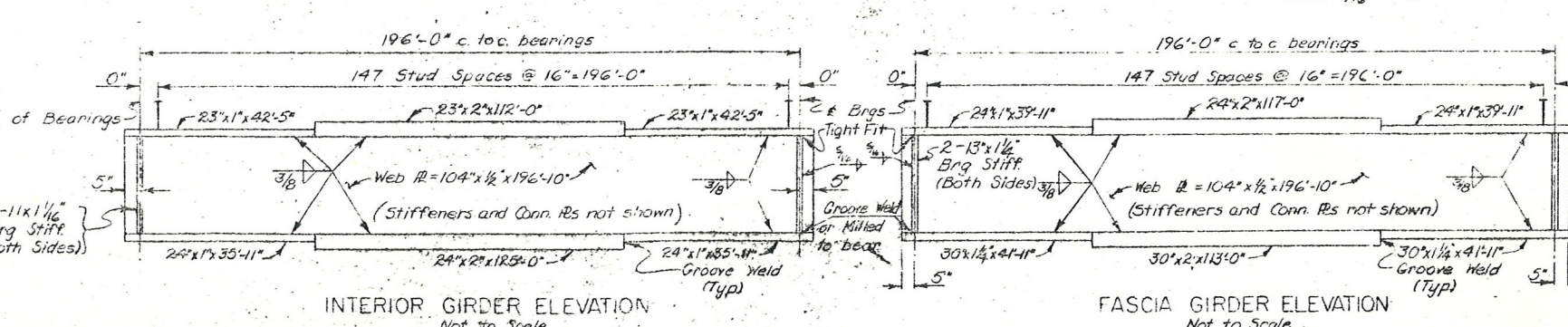
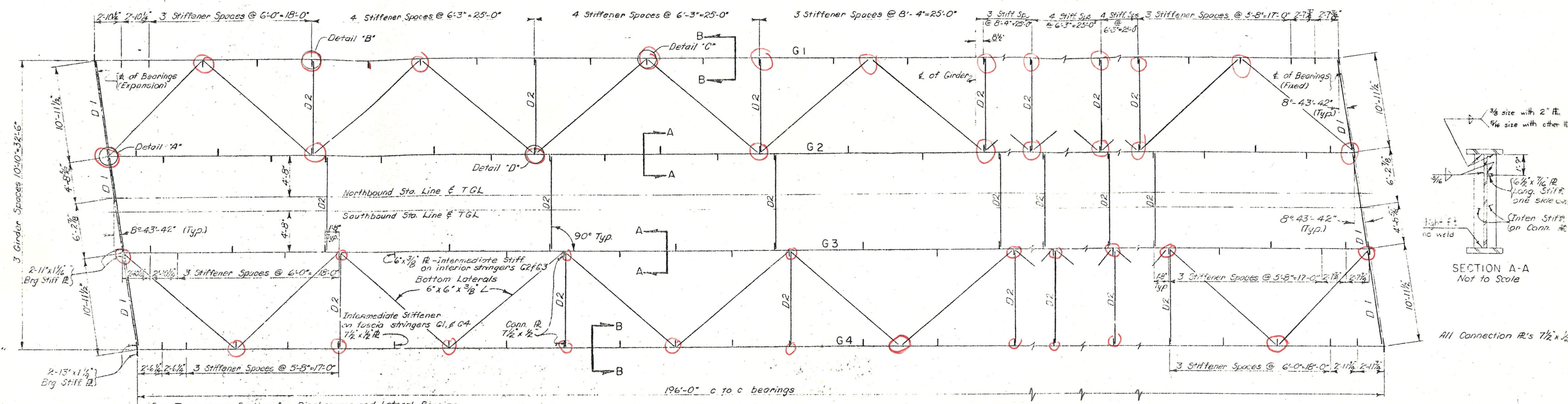
PROJECT ENGINEER: PARKER  
IN CHARGE OF: E. D. ECKEL  
DESIGNED BY: E. F. FINE  
DESIGN CHECKED BY: J. J. JONES  
DETAILS BY: J. J. JONES  
DETAIL CHECKED BY: J. J. JONES

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

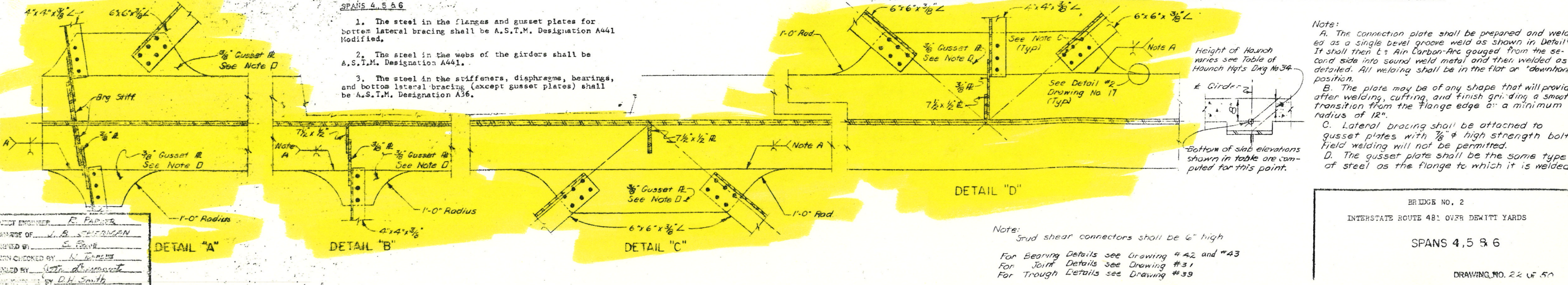
SPAN 3

DRAWING NO. 21 OF 30





S(B)	SCUTHBOUND			NORTHEOUND			DL DEFLECTION (FT)				CAMBER		
GIRDER	THEO. BOT. OF SLAB EL.			THEO. BOT. OF SLAB EL.									
SPAN 4	± SO BRG	± SPAN	± NO BRG	± SO BRG	± SPAN	± NO BRG	STEEL	SLAB	SDL	TOTAL DL	VCC(FT)	TOTAL	
												FEET	INCHES
G1	450.21	450.54	450.63	450.30	450.59	450.66	0.172	0.212	0.168	0.552	0.113	0.665	8"
G2	450.45	450.77	450.86	450.53	450.82	450.89	0.178	0.378	0.062	0.618	0.113	0.731	8 3/4"
G3	450.48	450.80	450.89	450.51	450.80	450.85	0.178	0.378	0.062	0.618	0.113	0.731	8 3/4"
G4	450.27	450.58	450.67	450.29	450.57	450.63	0.172	0.212	0.168	0.552	0.113	0.665	8"
SPAN 5													
G1	450.63	450.50	450.14	450.66	450.50	450.10	0.172	0.212	0.168	0.552	0.113	0.665	8"
G2	450.86	450.72	450.36	450.89	450.72	450.32	0.178	0.378	0.062	0.618	0.113	0.731	8 3/4"
G3	450.84	450.75	450.38	450.85	450.65	450.28	0.178	0.378	0.062	0.618	0.113	0.731	8 3/4"
G4	450.66	450.52	450.15	450.63	450.45	450.05	0.172	0.212	0.168	0.552	0.113	0.665	8"
SPAN 6													
G1	450.13	449.54	448.72	450.09	449.47	448.62	0.172	0.212	0.168	0.552	0.113	0.665	8"
G2	450.35	449.75	448.93	450.31	449.68	448.83	0.178	0.378	0.062	0.618	0.113	0.731	8 3/4"
G3	450.37	449.77	448.94	450.27	449.64	448.78	0.178	0.378	0.062	0.618	0.113	0.731	8 3/4"
G4	450.12	449.52	448.70	450.04	449.40	448.54	0.172	0.212	0.168	0.552	0.113	0.665	8"

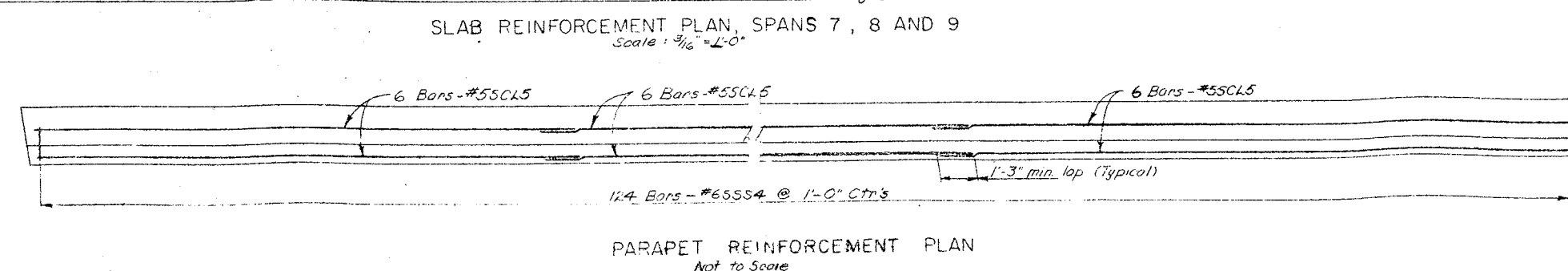
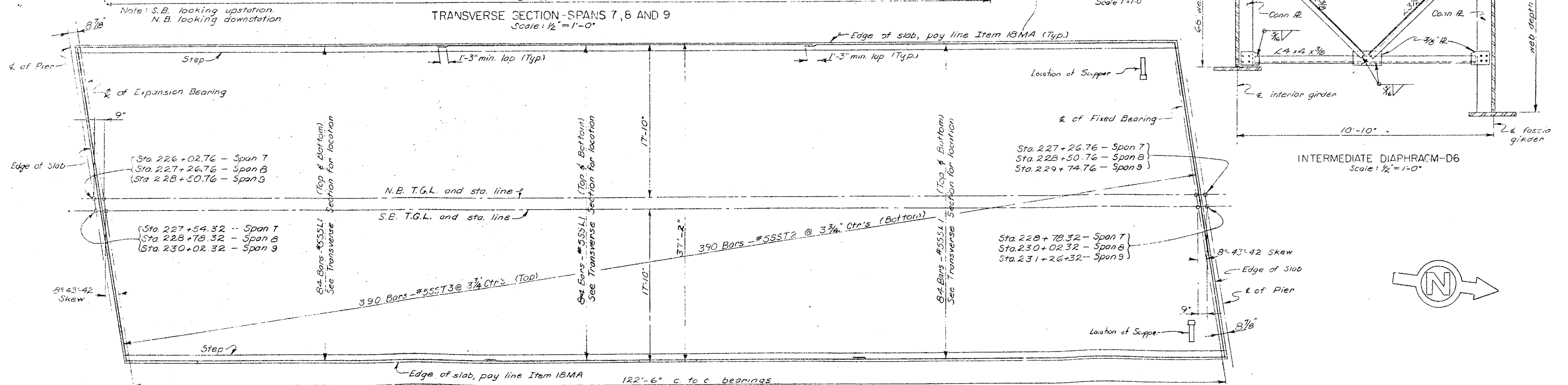
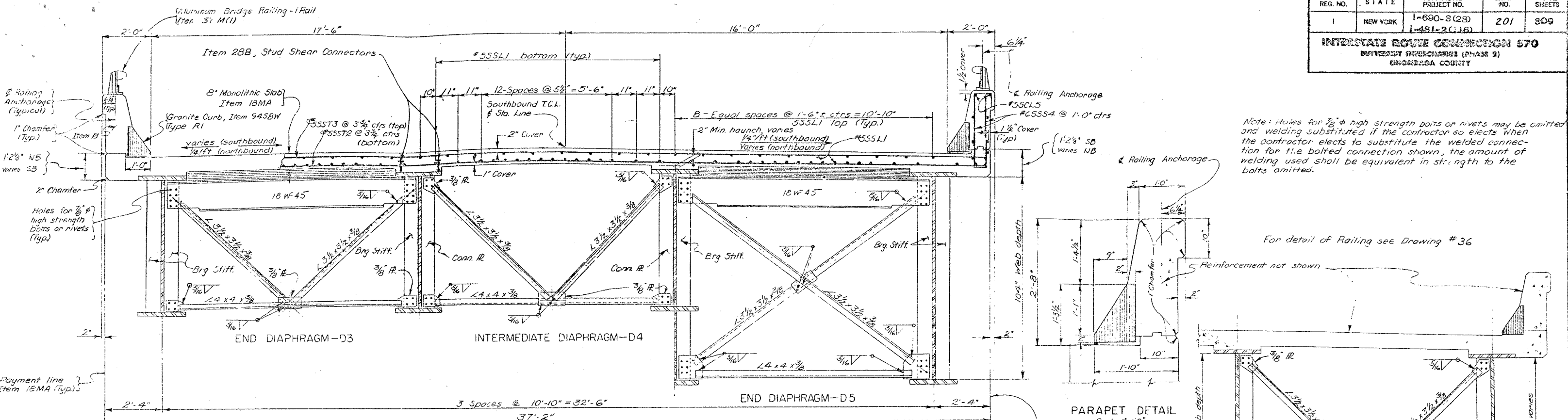


**Note:**  
A. The connection plate shall be prepared and welded as a single bevel groove weld as shown in Detail A. It shall then be air carbon-arc gouged from the second side into sound weld metal and then welded as detailed. All welding shall be in the flat or "downhand" position.  
B. The plate may be of any shape that will provide after welding, cutting, and finish grinding a smooth transition from the flange edge or a minimum radius of 12".  
C. Lateral bracing shall be attached to gusset plates with 1/2" high strength bolts. Field welding will not be permitted.  
D. The gusset plate shall be the same type of steel as the flange to which it is welded.



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-680-3(28) 1-481-2(116)	201	309

**INTERSTATE ROUTE CONNECTION 570**  
DEWITT BRIDGE (PHASE 2)  
ORANGETA COUNTY

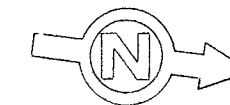


Note: Holes for 3/8" high strength bolts or rivets may be omitted and welding substituted if the contractor so elects. When the contractor elects to substitute the welded connection for the bolted connection shown, the amount of welding used shall be equivalent in strength to the bolts omitted.

For detail of Railing see Drawing # 36

PARAPET DETAIL  
Scale 1" = 1'-0"

INTERMEDIATE DIAPHRAGM-D6  
Scale: 1/2" = 1'-0"



PROJECT ENGINEER: E. F. FARRER  
IN CHARGE OF: J. G. SHERMAN  
DESIGNED BY: J. G. SHERMAN  
DESIGN CHECKED BY: J. G. SHERMAN  
DETAIL CHECKED BY: J. G. SHERMAN

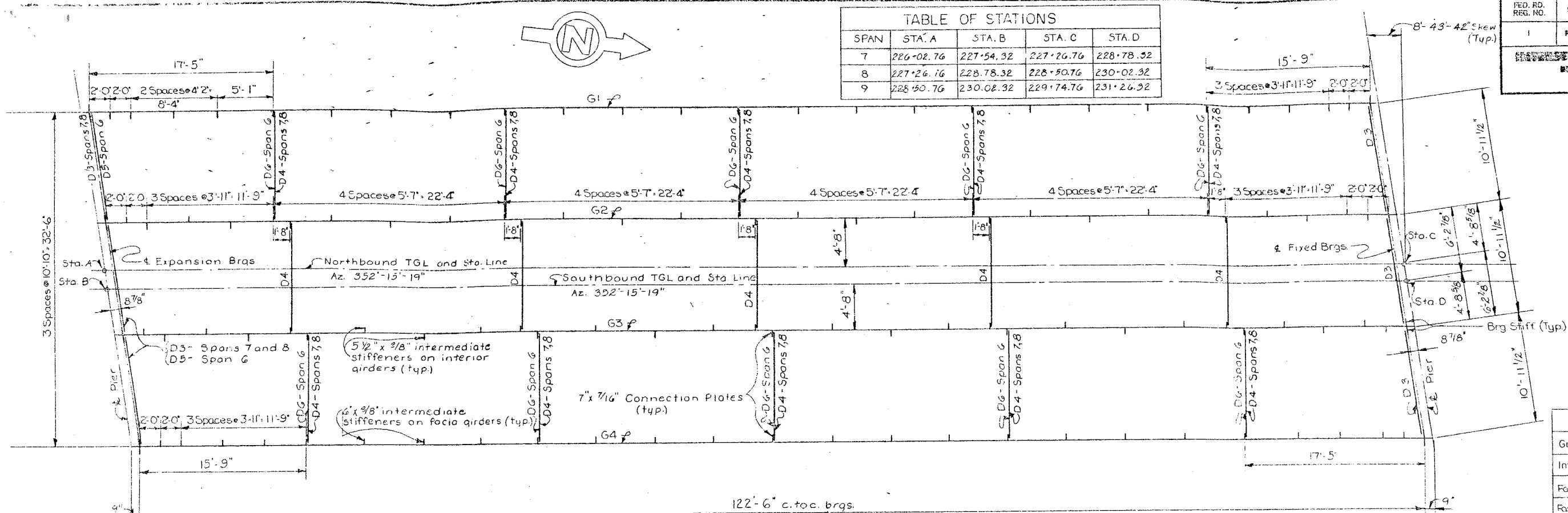
BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS  
SPANS 7, 8, 9  
DRAWING NO. 23 OF 50



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-481-2(116)	202	309

INTERSTATE ROUTE 481 OVER DEWITT YARDS  
BRIDGE NO. 2  
COLUMBIA COUNTY

TABLE OF STATIONS				
SPAN	STA. A	STA. B	STA. C	STA. D
7	226+02.76	227+54.32	227+26.76	228+78.32
8	227+26.76	228+78.32	228+50.76	230+02.32
9	228+50.76	230+02.32	229+74.76	231+26.32



STEEL FRAMING PLAN SPANS 7, 8 &amp; 9 (NB &amp; SB)

Scale: 3/16" = 1'-0"

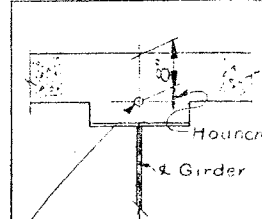
Steel in the girder webs and flanges shall be A.S.T.M. Designation A441 steel.  
Steel in the stiffeners and diaphragms shall be A.S.T.M. Designation A36 steel.

BEARING STIFFENER SIZES

Girder	Size of each plate (2 plates @ each end of girder)
Interior spans 7 & 8	8" x 3/4"
Fascia span 7	8" x 3/4"
Fascia spans 8 & 9	9" x 7/8"

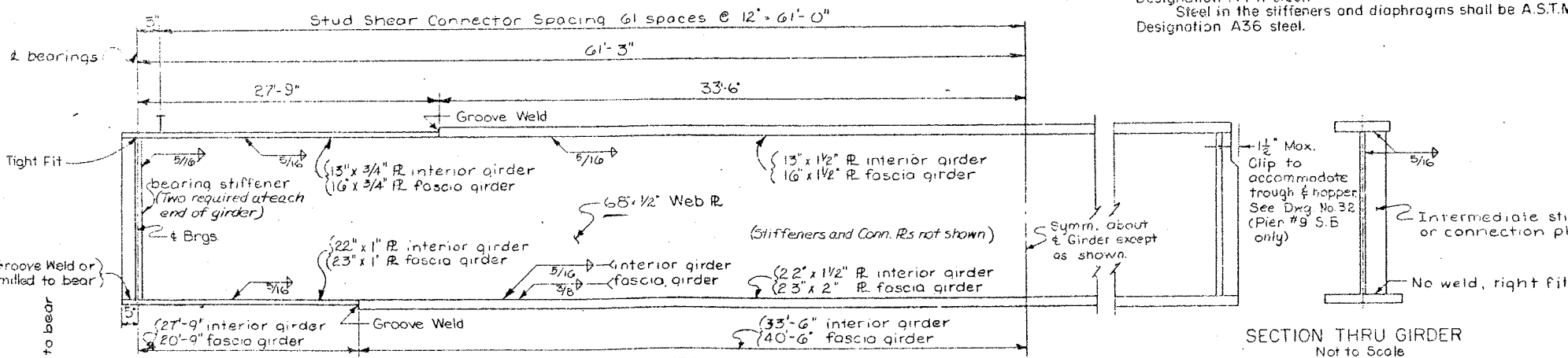
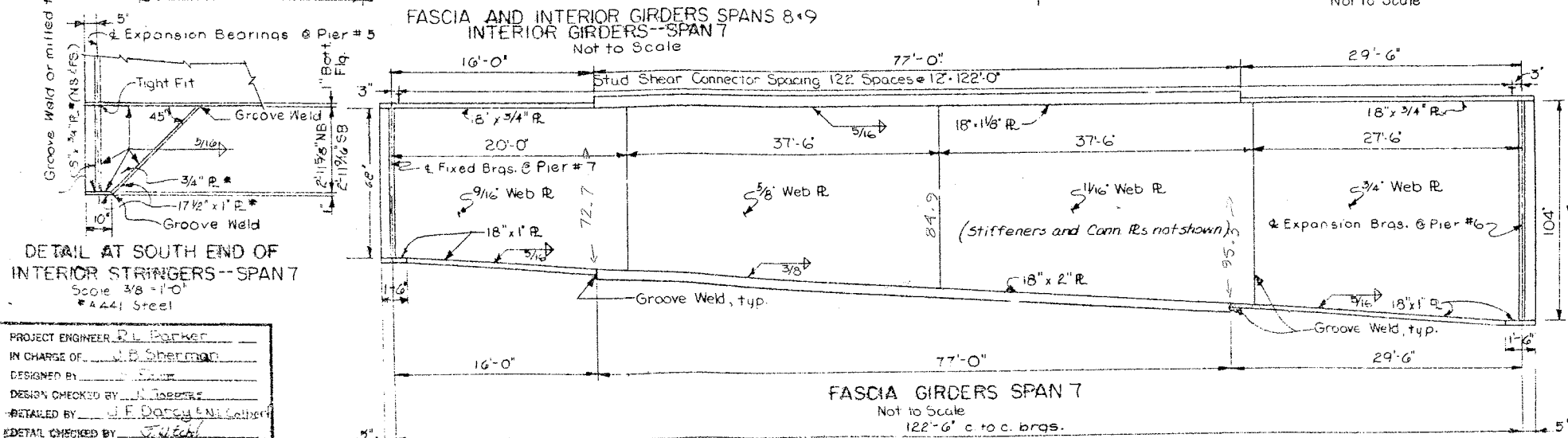
BOTTOM OF SLAB ELEVATIONS

NORTHBOUND					SOUTHBOUND				
GIRDER	SPAN	EXP BRGS	CL. SPAN	CL. FIX BRGS	GIRDER	SPAN	EXP BRGS	CL. SPAN	CL. FIX BRGS
G1	7	448.60	447.95	447.22	G1	7	448.70	448.07	447.35
G2	7	448.61	448.16	447.42	G2	7	448.91	448.28	447.56
G3	7	448.77	448.11	447.37	G3	7	448.93	448.29	447.57
G4	7	448.52	447.87	447.12	G4	7	448.68	448.05	447.32
G1	8	447.20	446.37	445.45	G1	8	447.33	446.52	445.63
G2	8	447.40	446.57	445.65	G2	8	447.54	446.73	445.83
G3	8	447.35	446.52	445.59	G3	8	447.55	446.73	445.83
G4	8	447.10	446.27	445.34	G4	8	447.30	446.48	445.58
G1	9	445.43	444.42	443.93	G1	9	445.60	444.61	443.97
G2	9	445.63	444.62	443.98	G2	9	445.80	444.81	443.74
G3	9	445.57	444.56	443.46	G3	9	445.81	444.81	443.73
G4	9	445.32	444.30	443.20	G4	9	445.56	444.56	443.48



Bottom of Slab Elevation shown in table are computed for this point.

\*Height of Haunch varies. See Table of Haunch Heights on Drawing No. 34.

SECTION THRU GIRDER  
Not to ScaleFASCIA AND INTERIOR GIRDERS SPANS 8 & 9  
INTERIOR GIRDERS--SPAN 7  
Not to ScaleFASCIA GIRDERS SPAN 7  
Not to Scale  
122'-6" c to c. brgs.

DEFLECTIONS

GIRDER		SPAN	STEEL (FT)	SLAB (FT)	S.D.L. (FT)	TOTAL (FT)	V.C.C. (FT)	TOTAL (IN)
NB AND SB	G1	7	.05	.09	.06	.20	.04	2.4
	G2	7	.08	.24	.03	.35	.04	3.1
	G3	7	.08	.24	.03	.35	.04	3.1
	G4	7	.05	.09	.06	.20	.04	2.4
NB AND SB	G1	8	.07	.12	.08	.27	.04	3.1
	G2	8	.08	.24	.03	.35	.04	3.1
	G3	8	.08	.24	.03	.35	.04	3.1
	G4	8	.07	.12	.08	.27	.04	3.1
NB	G1	9	.07	.12	.08	.27	.02	2.9
	G2	9	.08	.24	.03	.35	.04	3.1
	G3	9	.08	.24	.03	.35	.04	3.1
	G4	9	.07	.12	.08	.27	.04	3.1

V.C.C.=Vertical Curve Camber  
S.D.L.=Superimposed dead load, includes the weight of sidewalk & railing.

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

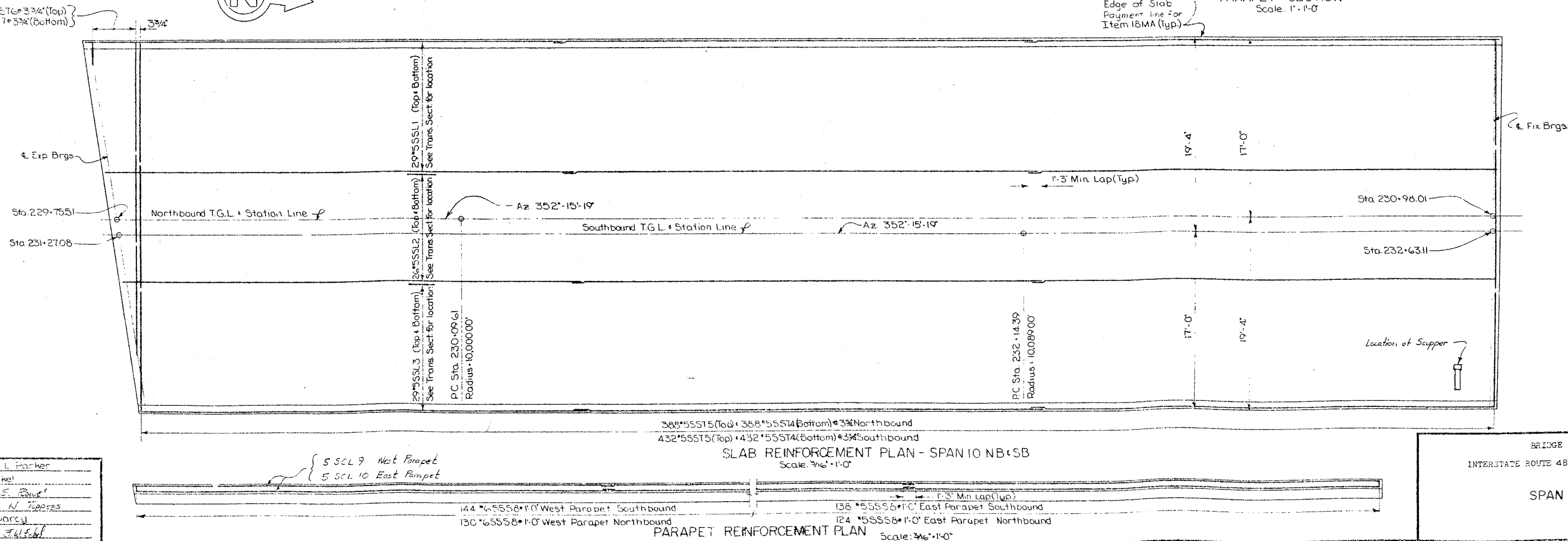
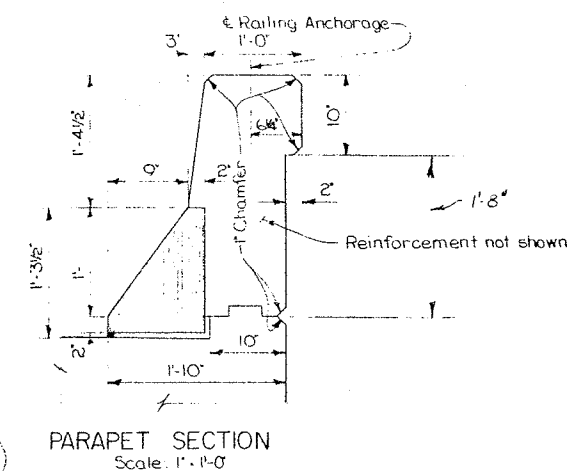
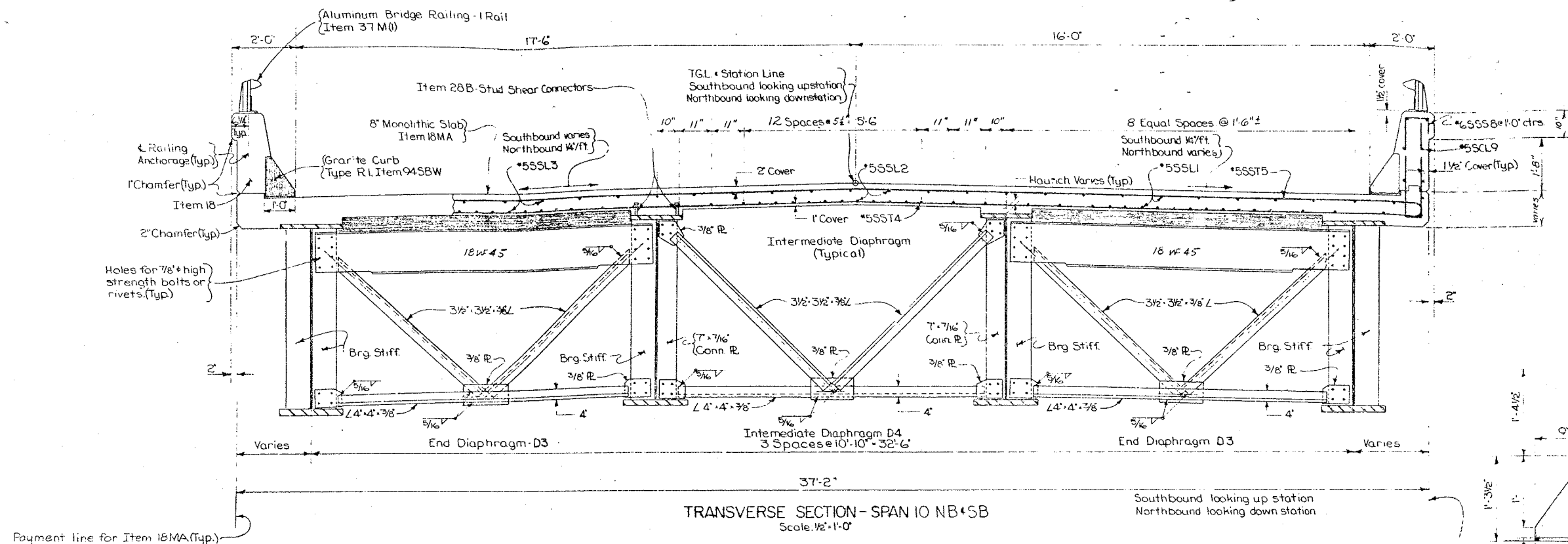
SPANS 7, 8 &amp; 9 (NB &amp; SB)

DRAWING NO. 24 OF 50



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-690-3(28) 1-481-2(116)	203	309

**INTERSTATE ROUTE CONNECTION 570**  
**BUTTERNUT INTERCHANGE (PHASE 2)**  
 ONONDAGA COUNTY



PROJECT ENGINEER: E. L. Parker  
 IN CHARGE OF: F. Ecker  
 DESIGNED BY: S. B. Rouse  
 DESIGN CHECKED BY: N. J. J. J. J.  
 DETAIL CHECKED BY: J. F. Dancy  
 DETAIL CHECKED BY: F. L. J. J.

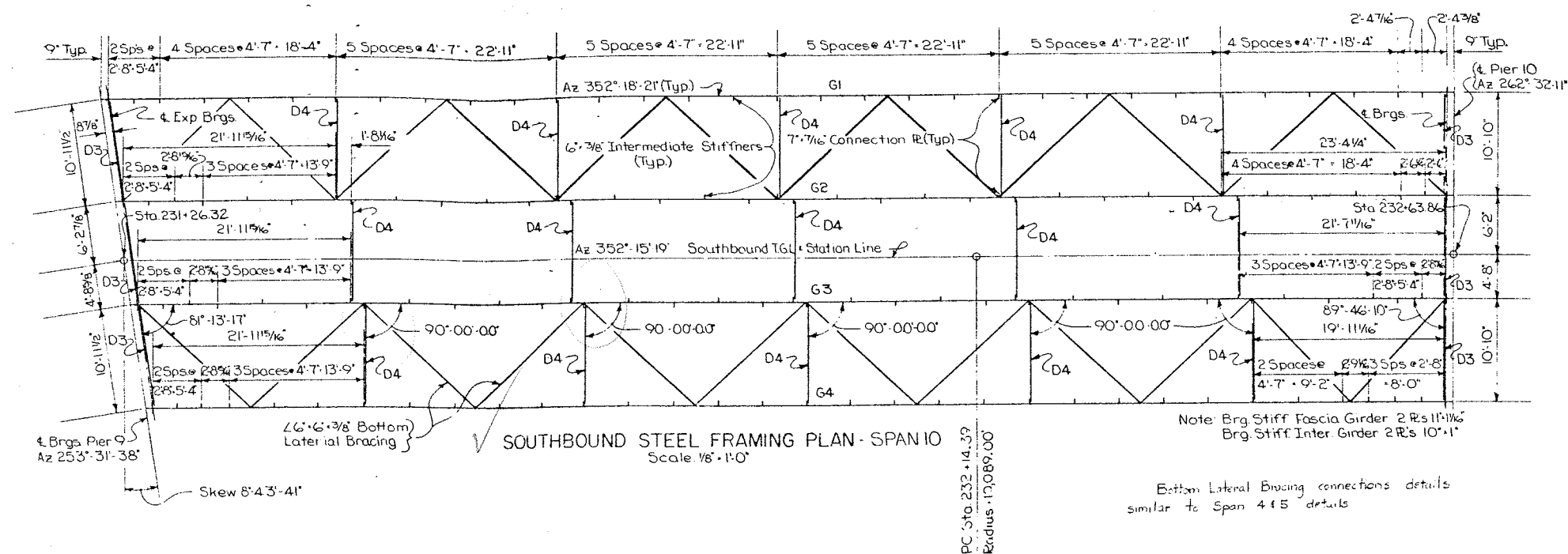
BRIDGE NO. 2  
 INTERSTATE ROUTE 481 OVER DEWITT YARDS

SPAN 10 NB+SB

DRAWING NO. 25 OF 3



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-680-3(28) 1-481-2(116)	204	509
INTERSTATE ROUTE CONNECTION 870 OUTSTANDING CONNECTION (PART 2) CHENANGO COUNTY				



BOTTOM OF SLAB ELEVATIONS

## SOUTHBOUND

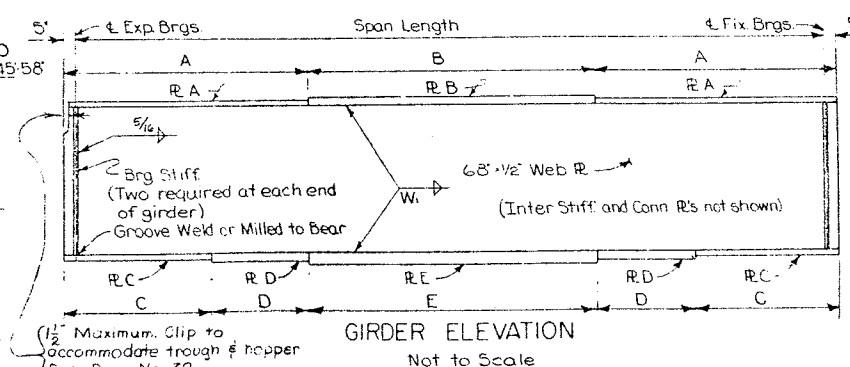
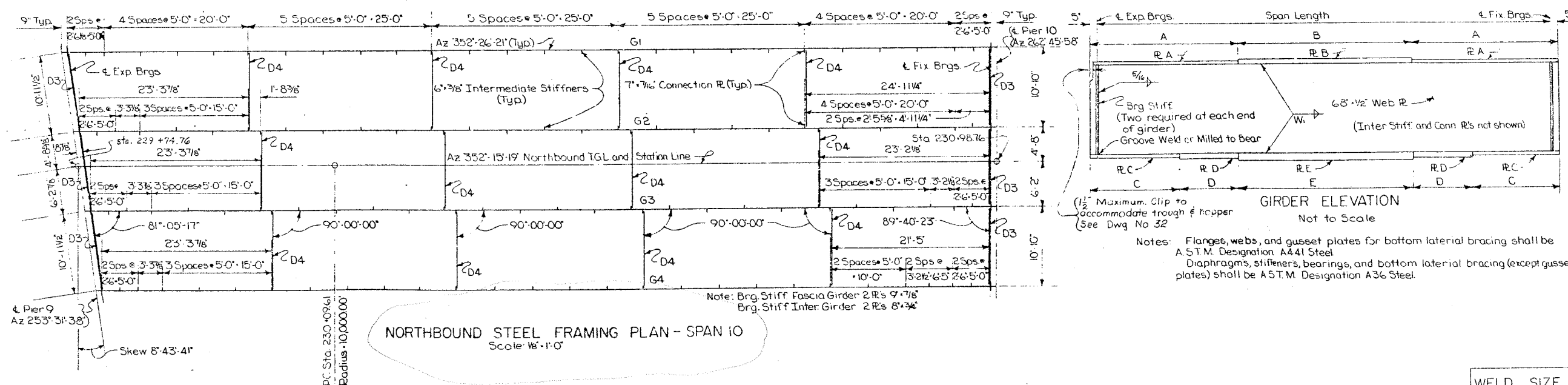
GIRDER	SPAN	EXP. BRGS.	CL. SPAN	CL. FIX. BRGS.
G1	10	443.54	442.46	441.26
G2	10	443.72	442.49	441.15
G3	10	443.70	442.40	440.99
G4	10	443.45	442.16	440.77

## NORTHBOUND

GIRDER	SPAN	EXP. BRGS.	CL. SPAN	CL. FIX. BRGS.
G1	10	443.50	442.49	441.39
G2	10	443.56	442.42	441.19
G3	10	443.43	442.24	440.98
G4	10	443.17	442.00	440.75

Height of Haunch varies  
see Table of Haunch Heights  
Drawing No. 34

Bottom of slab elevations  
shown in table are computed  
for this point.

TYPICAL SECTION  
Not to Scale

SPAN 10 GIRDER TABLE

SPAN 10 GIRDER TABLE																				
GIRDER	SPAN LENGTH CL. TO CL. BRGS.	FLANGE PLATE SIZES					FLANGE PLATE LENGTHS					DEFLECTIONS (FT)				CAMBER			STUD SHEAR CONNECTOR SPACING	
		R A	R B	R C	R D	R E	A	B	C	D	E	STEEL	CONC.	S. D.L.	TOTAL	VCC (FT)	TOTAL <small>(INCHES)</small>			
Northbound	G1	138'-8 3/4"	23'-1"	23'-1 1/2"	24'-1"	24'-2"	24'-2 1/2"	36'-9 7/8"	66'-0"	20'-3 1/4"	19'-0"	61'-0"	0.10	0.15	0.11	0.36	.06	0.42'	5"	136 Spaces • 12' - 138'-0"
	G2	137'-0 3/4"	19'-7 7/8"	19'-1 1/2"	24'-1"	None	24'-2"	32'-11 1/4"	72'-0"	23'-5 1/4"	0	91'-0"	0.11	0.28	0.04	0.43	.06	0.49	5 7/8"	137 Spaces • 12' - 137'-0"
	G3	135'-3 5/8"	19'-7 7/8"	19'-1 1/2"	24'-1"	None	24'-2"	32'-0 3/4"	72'-0"	22'-6 3/4"	0	91'-0"	0.10	0.27	0.04	0.41	.05	0.46	5 1/2"	135 Spaces • 12' - 135'-0"
	G4	133'-7"	23'-1"	23'-1 1/2"	24'-1"	24'-2"	24'-2 1/2"	34'-2 1/2"	66'-0"	17'-8 1/2"	19'-0"	61'-0"	0.09	0.13	0.09	0.31	.05	0.36	4 3/8"	133 Spaces • 12' - 133'-0"
	G1	125'-0 1/4"	17'-3 3/4"	17'-1 1/2"	24'-1"	None	24'-2"	28'-11 1/8"	68'-0"	21'-5 1/8"	0	83'-0"	0.07	0.12	0.09	0.28	.05	0.33	4"	125 Spaces • 12' - 125'-0"
	G2	123'-3 1/8"	14'-3 3/4"	14'-1 1/2"	23'-1"	None	23'-1 1/2"	27'-6 1/4"	67'-0"	28'-0 3/4"	0	68'-0"	0.08	0.24	0.03	0.35	.05	0.40	4 3/4"	123 Spaces • 12' - 123'-0"
	G3	121'-6"	14'-3 3/4"	14'-1 1/2"	23'-1"	None	23'-1 1/2"	26'-8"	67'-0"	27'-2"	0	68'-0"	0.07	0.23	0.03	0.33	.04	0.37	4 1/2"	121 Spaces • 12' - 121'-0"
	G4	119'-8 7/8"	17'-3 3/4"	17'-1 1/2"	24'-1"	None	24'-2"	26'-3 3/4"	68'-0"	18'-9 7/8"	0	83'-0"	0.06	0.10	0.08	0.24	.04	0.28	3 3/8"	119 Spaces • 12' - 119'-0"

G1 33.54  
G2 28.51  
G3 27.13  
G4 26.75

17.24  
21.01  
27.63  
26.75  
18.3698

S.D.L. = superimposed dead load, includes weight of railing and parapet.  
V.C.C. = vertical curve correction

WELD SIZE TABLE

Thickness of Flange	W. Size of fillet weld joining web to flange
1/2" and under	5/16"
over 1/2" to 2 1/4"	3/8"
over 2 1/4"	1/2"

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

SPAN 10 NB-SB

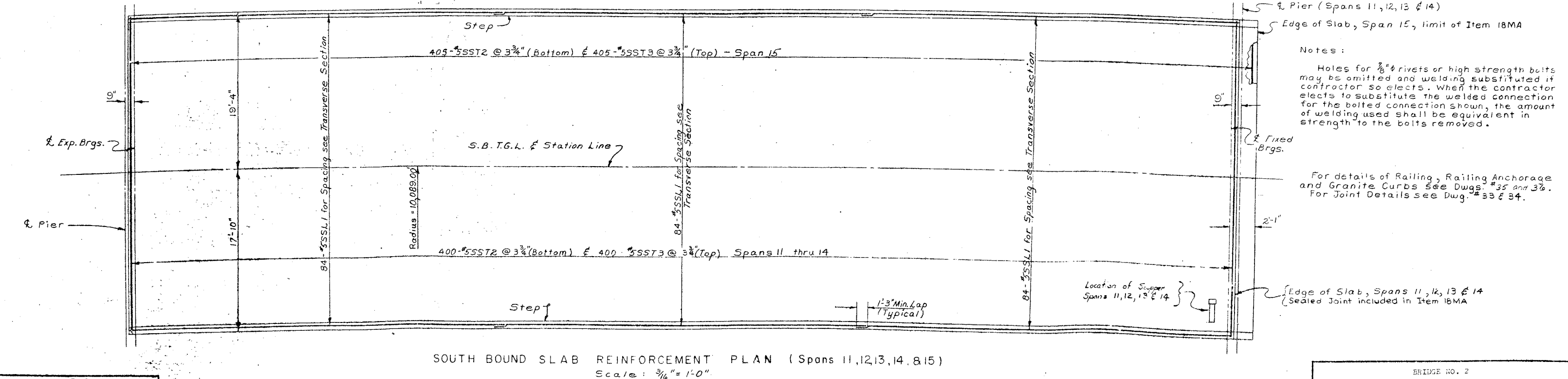
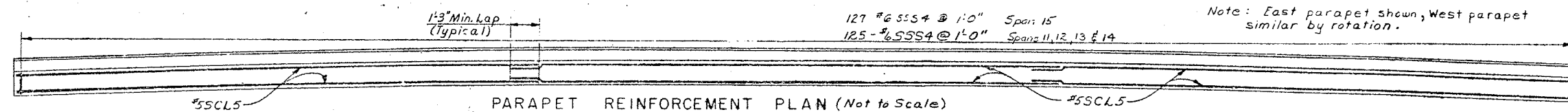
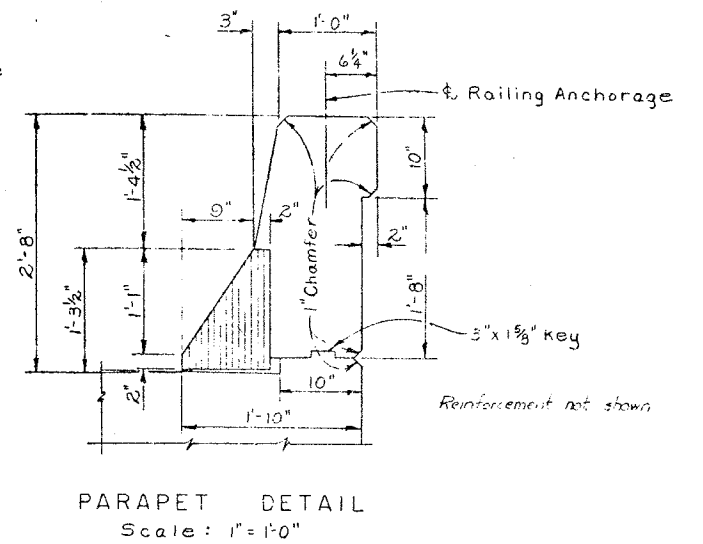
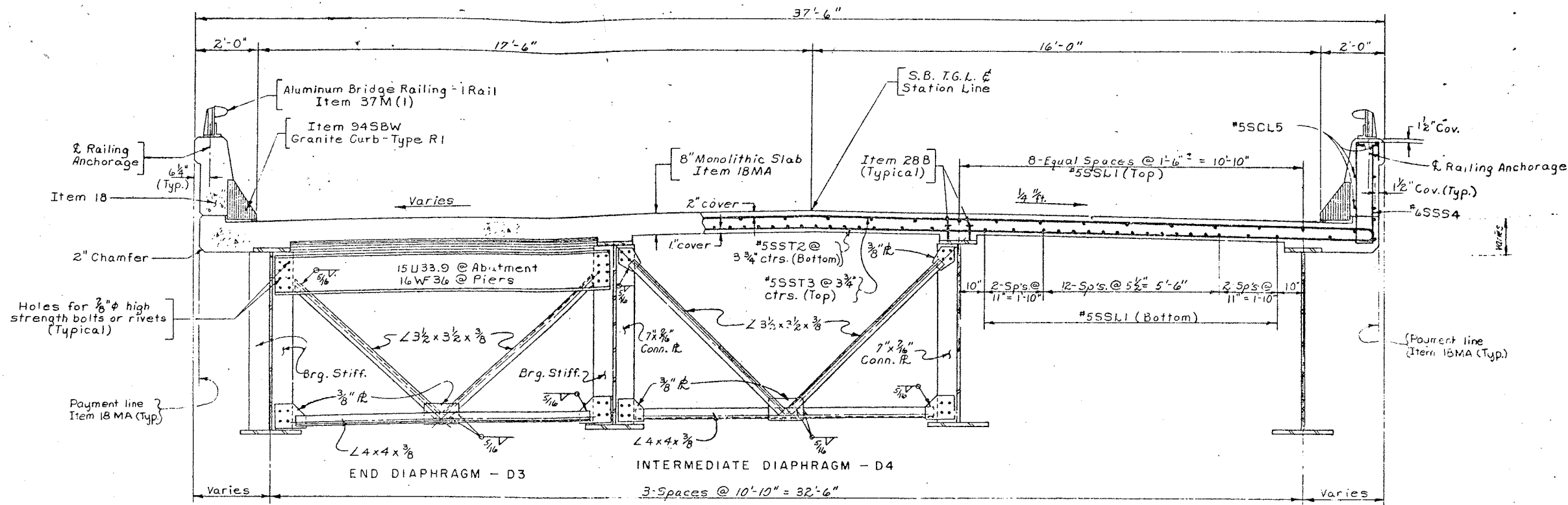
DRAWING NO. 26 OF 50

PROJECT ENGINEER: R.L. Parker  
CHARGE OF: F. Eckel  
DESIGNED BY: S. Rose  
DESIGN CHECKED BY: J. Topper & Smith  
DETAILS BY: J.F. Dancy  
DETAIL CHECKED BY: J. Topper



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-69-07-1-2 (116)	205	309

**INTERSTATE ROUTE CONNECTION 570**  
BUTTERNUT WILSONVILLE (PHASE 2)  
CHENANGO COUNTY



Notes:  
Holes for 3/8" rivets or high strength bolts may be omitted and welding substituted if contractor so elects. When the contractor elects to substitute the welded connection for the bolted connection shown, the amount of welding used shall be equivalent in strength to the bolts removed.

For details of Railing, Railing Anchorage and Granite Curbs see Dwg. #35 and 36. For Joint Details see Dwg. #33 & 34.

PROJECT ENGINEER R. Parker  
IN CHARGE OF J. B. Sherman  
DESIGNED BY D. H. Smith  
DESIGN CHECKED BY S. Rowe  
DETAILED BY J. C. Thompson  
DETAIL CHECKED BY J. C. Thompson

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DENITT YARDS

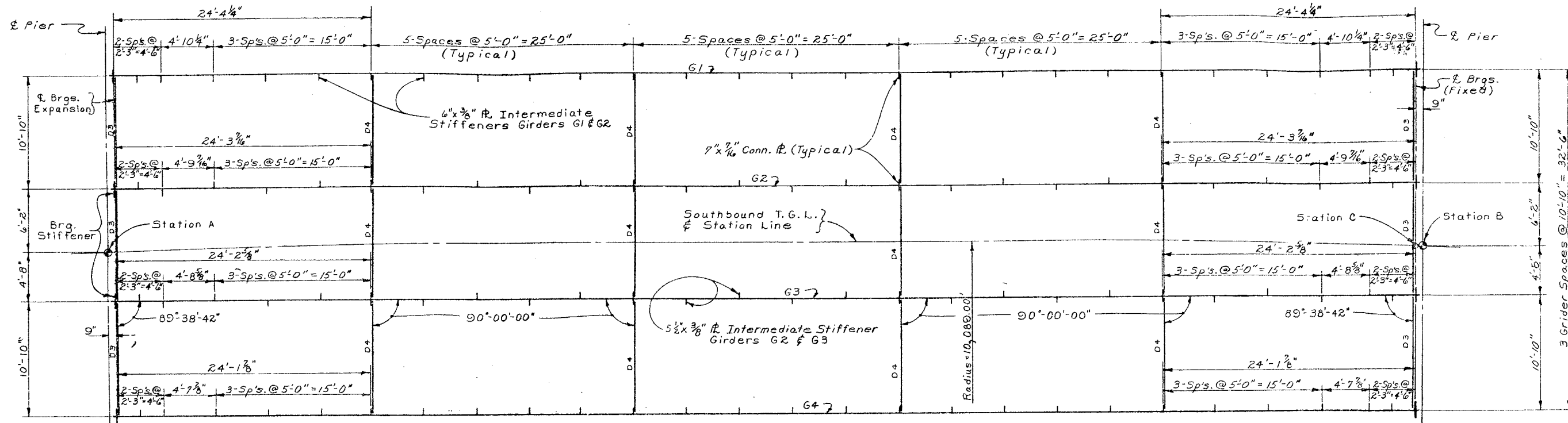
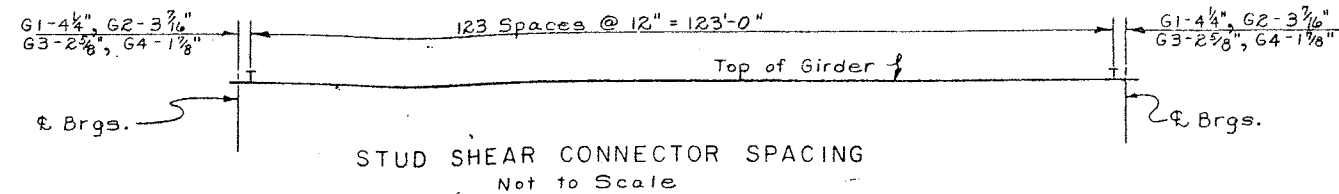
SPANS 11 THRU 15 SOUTHBOUND



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEET
1	NEW YORK	1-090-3(28)	206	309

INTERSTATE ROUTE 491 OVER DEWITT YARDS  
 COLUMBIA COUNTY

SPAN	TABLE OF STATIONS					
	STATION "A"		STATION "B"		STATION "C"	
	STATION	℄	STATION	℄	STATION	℄
11 S.B.	232+63.86	℄ Pier #9 S.B.	233+88.86	℄ Pier #10 S.B.	—	—
12 S.B.	233+88.86	℄ Pier #10 S.B.	235+13.86	℄ Pier #11 S.B.	—	—
13 S.B.	235+13.86	℄ Pier #11 S.B.	236+38.86	℄ Pier #12 S.B.	—	—
14 S.B.	236+38.86	℄ Pier #12 S.B.	237+63.86	℄ Pier #13 S.B.	—	—
15 S.B.	237+63.86	℄ Pier #13 S.B.	—	—	238+88.11	℄ Fixed Brgs. No. Abut. (S.B.)

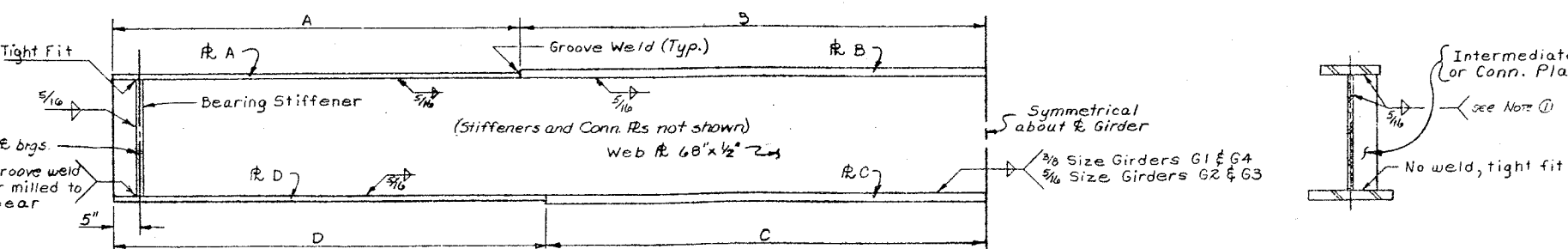


Note:  
 See Transverse Section for Diaphragms.

Notes:

Web and flanges shall be A.S.T.M. designation A441 Steel.

Stiffeners, connection plates, and diaphragms shall be A.S.T.M. designation A36 Steel.



TYPICAL SECTION  
 Not to Scale

Note ①: Where connection plates are used in pairs, the fillet weld at top of stiffener is optional. See Note "Sup 4" in the Super-structure Notes.

SOUTHBOUND GIRDER TABLE - SPANS 11 thru 15										
GIRDER	SPAN C. to C. BRGS.	FLANGE SIZES				FLANGE DIMENSIONS				Intermediate Stiffener Size
		RA	RB	RC	RD	A	B	C	D	
G1	123'-8 1/2"	16" x 3/4"	16" x 1 1/2"	23" x 2"	23" x 1"	28'-9 1/4"	33'-6"	40'-6"	21'-5 1/4"	9" x 3/8"
G2	123'-6 5/16"	13" x 3/4"	13" x 1 1/2"	22" x 1 1/2"	22" x 1"	28'-5 1/2"	33'-6"	33'-6"	28'-8 3/8"	8" x 3/4"
G3	123'-5 3/16"	13" x 3/4"	13" x 1 1/2"	22" x 1 1/2"	22" x 1"	28'-7 7/8"	33'-6"	33'-6"	28'-7 7/8"	8" x 3/4"
G4	123'-3 1/16"	16" x 3/4"	16" x 1 1/2"	23" x 2"	23" x 1"	28'-6 7/8"	33'-6"	40'-6"	21'-6 3/8"	9" x 3/8"

THEO. BOTTOM OF SLAB ELEV. (Southbound)				
GIRDER	SPAN	℄ So. Brg.	℄ Span	℄ No. Brg.
G1	11	441.24	440.03	438.56
G2	11	441.12	439.30	438.33
G3	11	440.96	439.58	438.11
G4	11	440.74	439.35	437.88

GIRDER	SPAN	℄ So. Brg.	℄ Span	℄ No. Brg.
G1	12	438.52	436.95	435.30
G2	12	438.29	436.73	435.07
G3	12	438.07	436.50	434.85
G4	12	437.84	436.27	434.62

GIRDER	SPAN	℄ So. Brg.	℄ Span	℄ No. Brg.
G1	13	435.66	433.51	431.67
G2	13	435.03	433.28	431.45
G3	13	434.81	433.06	431.22
G4	13	434.58	432.83	431.00

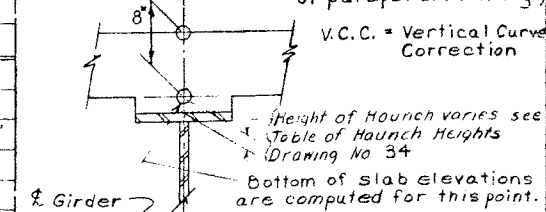
GIRDER	SPAN	℄ So. Brg.	℄ Span	℄ No. Brg.
G1	14	431.63	429.72	427.89
G2	14	431.40	429.49	427.66
G3	14	431.18	429.26	427.44
G4	14	430.95	429.04	427.21

TABLE OF AZIMUTHS	
LOCATION	AZIMUTHS
℄ Pier #10 (S.B.)	262°-32'-11"
℄ Pier #11 (S.B.)	263°-14'-46"
℄ Pier #12 (S.B.)	263°-57'-22"
℄ Pier #13 (S.B.)	264°-39'-57"
℄ Pier #14 (S.B.)	265°-22'-33"
℄ Fixed Brgs. @ North Abut. (S.B.)	266°-05'-08"

GIRDER	SPAN	℄ So. Brg.	℄ Span	℄ No. Brg.
G1	15	427.85	426.16	424.62
G2	15	427.62	425.93	424.39
G3	15	427.40	425.71	424.16
G4	15	427.17	425.48	423.94

DEFLECTIONS (ft.)		CAMBER	
		V.C.C. (ft.)	TOTAL (ft.)
Span 11, 12 & 13 (S.B.)	G1 and G4	.07	.12
	G2 and G3	.08	.24
Span 14 (S.B.)	G1 and G4	.07	.12
	G2 and G3	.08	.24
Span 15 (S.B.)	G1 and G4	.07	.12
	G2 and G3	.08	.24

S.D.L. = Superimposed Dead Load (includes weight of parapet and railing.)



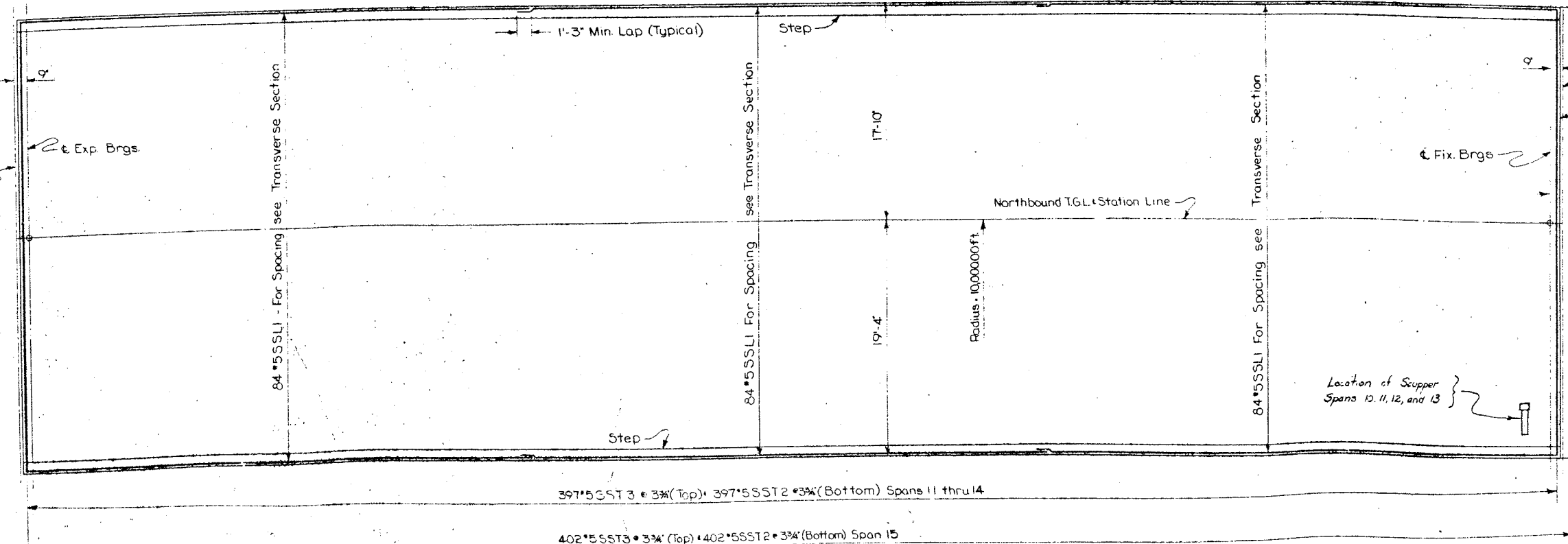
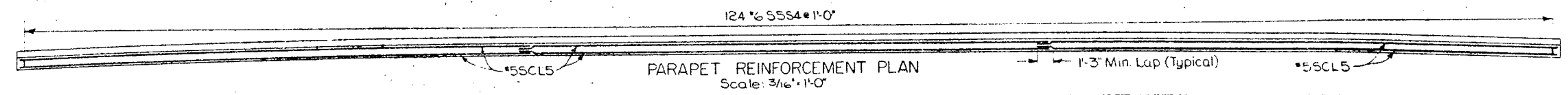
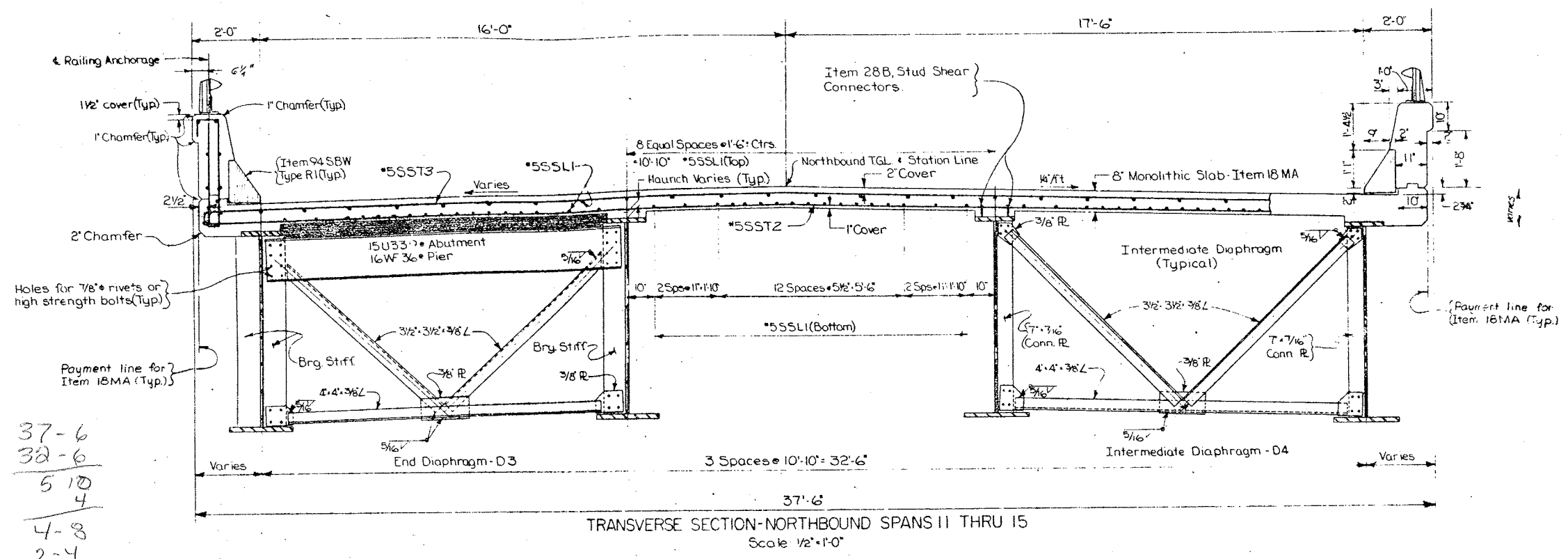
BRIDGE NO. 2  
 INTERSTATE ROUTE 491 OVER DEWITT YARDS

SPANS 11 THRU 15 SOUTHBOUND



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-690-3(28) 1-691-2(13)	207	309

**INTERSTATE ROUTE CONNECTION 870**  
BUTTERNUT INTERCHANGE (PHASE 2)  
ONONDAGA COUNTY



Note: West parapet shown  
East parapet similar

2" Exp. Brgs.

2" Pier

2" Pier (Spans 11, 12, 13, 14)

Edge of slab, spans 11, 12, 13, 14  
(Joint included in Item 18 MA)

2'-1"

Edge of slab, span 15  
Pay line Item 18 MA  
(See detail, Drwg #33 of 50)

PROJECT ENGINEER R.L. Parker  
IN CHARGE OF J.B. Sherman  
DESIGNED BY N. Tappan  
DESIGN CHECKED BY P. Smith  
DETAILED BY J.F. Darcy  
DETAIL CHECKED BY J.W. Edell

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS  
SPANS 11 THRU 15 NORTHBOUND  
DRAWING NO. 29 OF 50



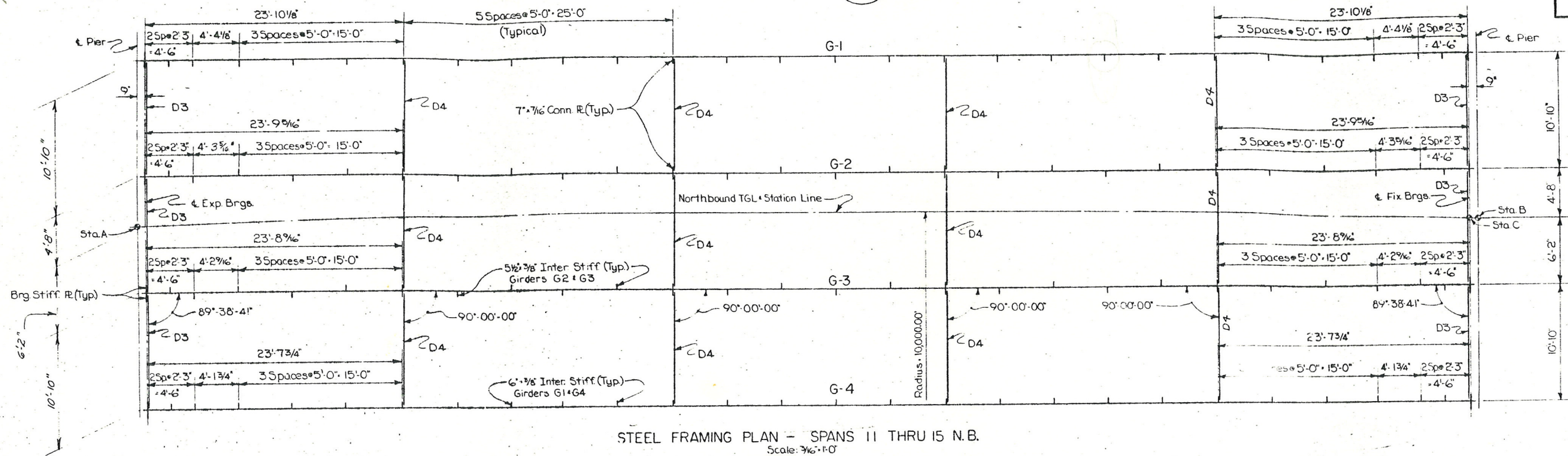
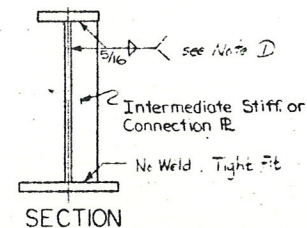
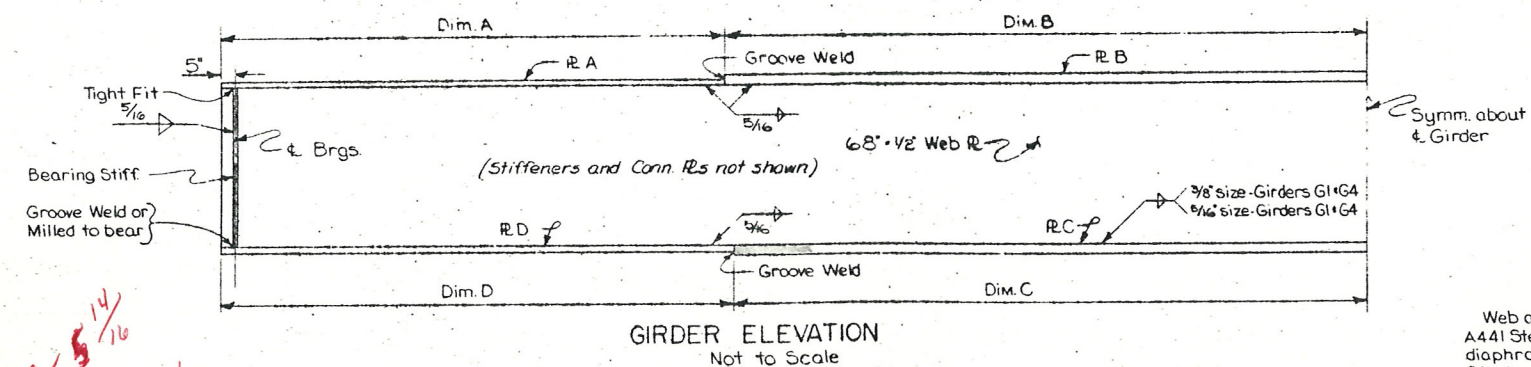
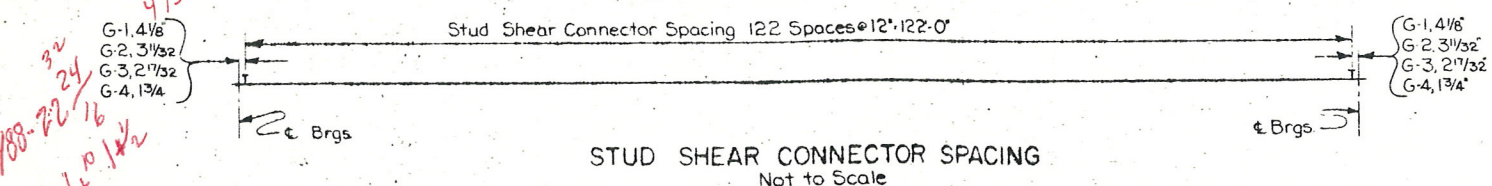


TABLE OF AZIMUTHS	
LOCATION	AZIMUTH
↳ Pier #10 N.B	262°-45'-51"
↳ Pier #11 N.B	263°-28'-36"
↳ Pier #12 N.B	264°-11'-13"
↳ Pier #13 N.B	264°-53'-51"
↳ Pier #14 N.B	265°-36'-28"
↳ Fixed Bearings ■ North Abutment N.B	266°-19'-06"
↳ Girders, Span 11 N.B	353°-07'-17"
↳ Girders, Span 12 N.B	353°-49'-55"
↳ Girders, Span 13 N.B	354°-32'-32"
↳ Girders, Span 14 N.B	355°-15'-10"
↳ Girders, Span 15 N.B	355°-57'-47"



Web and flanges shall be A.S.T.M. Designation A441 Steel. Stiffeners, connection plates and diaphragms shall be A.S.T.M. Designation A36 Steel.



Note ①: Where connection plates are used in pairs, the fillet weld at top of stiffener is optional. See Note "Sup 4" in the Superstructure Notes.

BOTTOM OF SLAB ELEVATIONS				
NORTHBOUND				
GIRDER	SPAN	EXP BRGS	CL SPAN	CL FIX BRGS
G-1	11	441.36	440.02	438.57
G-2	11	441.16	439.80	438.34
G-3	11	440.94	439.57	438.12
G-4	11	440.72	439.34	437.89
G-1	12	438.53	436.98	435.34
G-2	12	438.30	436.75	435.12
G-3	12	438.08	436.52	434.89
G-4	12	437.85	436.30	434.66
G-1	13	435.30	433.57	431.75
G-2	13	435.07	433.34	431.53
G-3	13	434.85	433.12	431.30
G-4	13	434.62	432.89	431.08
G-1	14	431.71	429.80	427.98
G-2	14	431.48	429.57	427.75
G-3	14	431.26	429.34	427.53
G-4	14	431.03	429.12	427.30
G-1	15	427.93	426.25	424.71
G-2	15	427.71	426.02	424.48
G-3	15	427.48	425.80	424.26
G-4	15	427.26	425.57	424.03

Bottom of Slab  
Elevations shown in table  
are computed for this point

NORTHBOUND GIRDER TABLE - SPANS 10 THRU 14											
GIRDER	SPAN LENGTH CL TO CL BEARINGS	FLANGE SIZE				FLANGE DIMENSIONS				BEARING STIFF. 2 #2's Required at each end of girder	INTERMEDIATE STIFFENER SIZE
		R A	R B	R C	R D	28 A	B	C	D		
1	12'-8 5/16"	16" x 3/4"	16" x 1 1/2"	23" x 2"	23" x 1"	23 3/8"	33'-6"	40'-6"	21'-3 3/4"	8" x 7/8"	6" x 3/8"
2	12'-6 1/16"	13" x 3/4"	13" x 1 1/2"	22" x 1 1/2"	22" x 1"	28"-2 1/4"	33'-6"	33'-6"	28'-2 3/4"	8" x 3/4"	5 1/2" x 3/8"
3	12'-5 1/16"	13" x 3/4"	13" x 1 1/2"	22" x 1 1/2"	22" x 1"	28"-1 1/4"	33'-6"	33'-6"	28'-1 3/4"	8" x 3/4"	5 1/2" x 3/8"
4	12'-3 3/4"	12" x 3/4"	13" x 1 1/2"	23" x 2"	23" x 1"	28'-0 3/4"	33'-6"	40'-6"	21'-0 3/4"	9" x 7/8"	6" x 3/8"

DEFLECTIONS (FT.)						CAMBER		
SPAN	GIRDER	STEEL	SLAB	S.D.L.	TOTAL	V.C.C. (FT.)	TOTAL FT.	IN.
Spans 11,12+13 Northbound	G1*G4	.07	.12	.08	.27	.04	31	3 3/4
	G2*G3	.08	.24	.03	.35	.04	39	4 1/4
Span 14 Northbound	G1*G4	.07	.12	.08	.27	-.04	.23	2 3/4
	G2*G3	.08	.24	.03	.35	-.04	.31	3 3/4
Span 15 Northbound	G1*G4	.07	.12	.08	.27	-.07	.20	2 1/4
	G2*G3	.08	.24	.03	.35	-.07	.26	3 1/4

V.C.C. = Vertical Curve Camber  
S.D.L. (Superimposed Dead Load) Includes weight of  
parapet & railing.

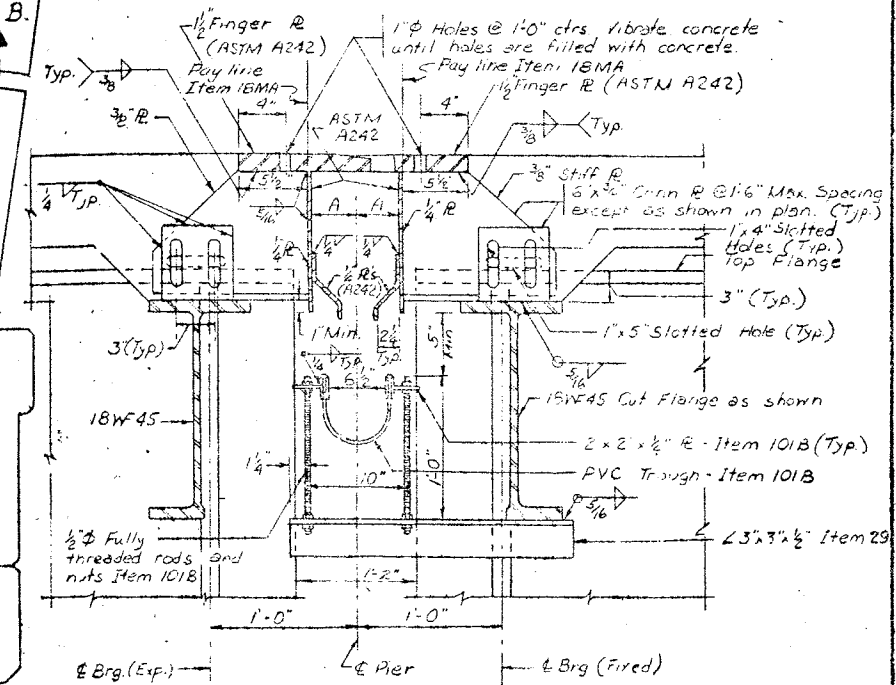
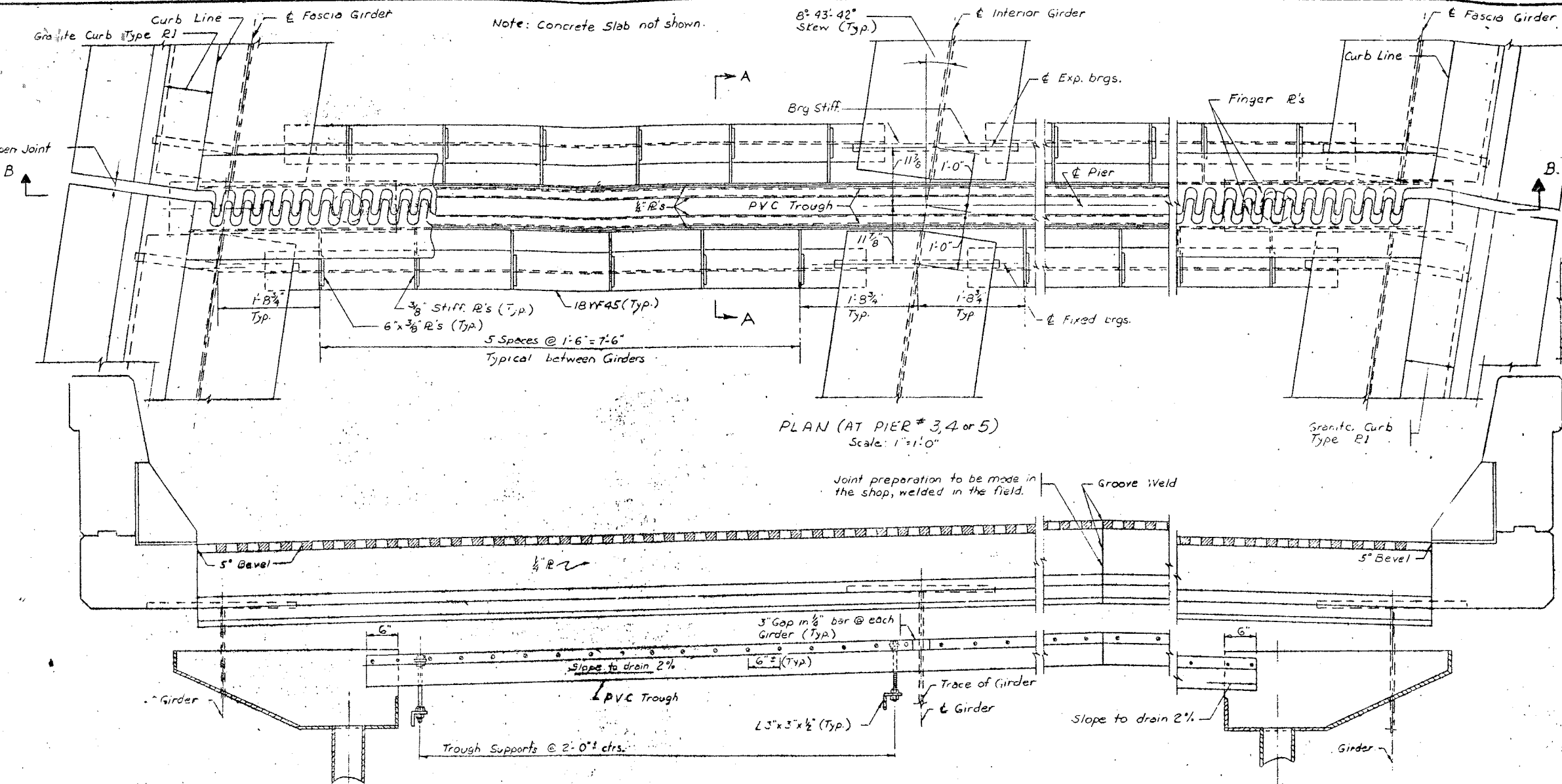
TABLE OF STATIONS						
SPAN	STATION A		STATION B		STATION C	
	STATION	C	STATION	C	STATION	C
11(NB)	230+98.76	← Pier*10(NB)	232+22.76	← Pier*11(NB)		
12(NB)	232+22.76	← Pier*11(NB)	233+46.76	← Pier*12(NB)		
13(NB)	233+46.76	← Pier*12(NB)	234+70.76	← Pier*13(NB)		
14(NB)	234+70.76	← Pier*13(NB)	235+94.76	← Pier*14(NB)		
15(NB)	235+94.76	← Pier*14(NB)			237+18.01	← Fix Brgs NAB

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS  
SPANS 11 THRU 15 NORTHBOUND

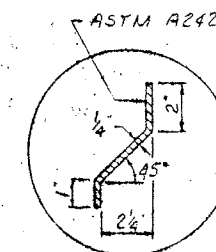
DRAWING NO: 30 OF 50



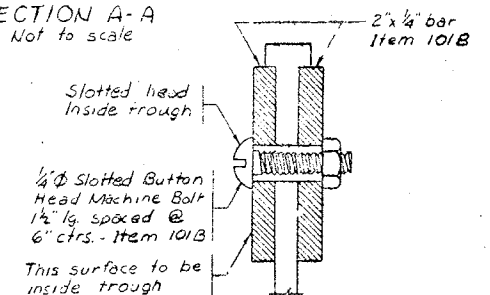
INTERSTATE ROUTE CONNECTION 570  
SUTHERLAND INTERCHANGE (PHASE 2)  
GONDOAGA COUNTY



SECTION A-A  
Not to scale



DETAIL "A"  
Scale: 3"=1'-0"

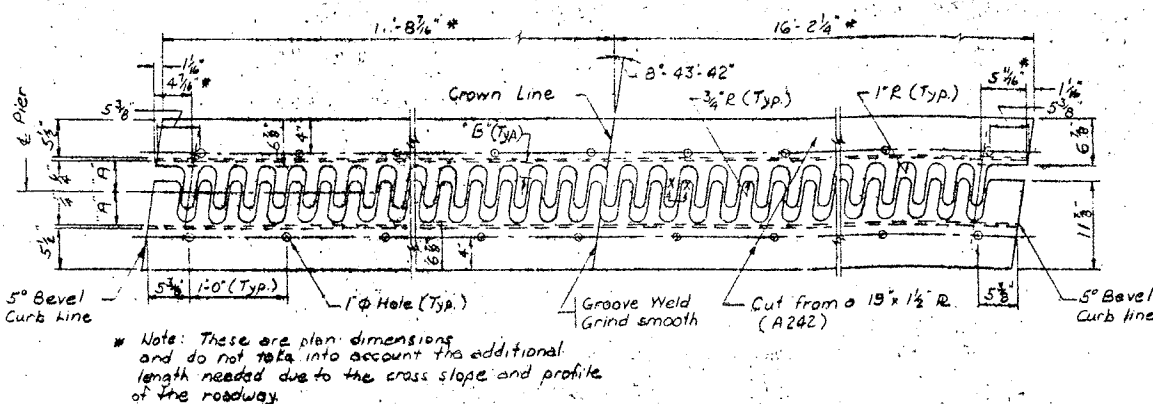


CONNECTION  
TO TROUGH  
Full Scale

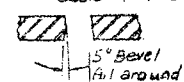
	Dimension at 68°F	T
"A"	4 1/16"	5 3/32"
"B"	1 7/8"	5 3/32"

$T$  is the decrease in the dimension for every  $10^\circ\text{F}$  rise in temperature (and the increase in the dimension for every  $10^\circ\text{F}$  fall in temperature)

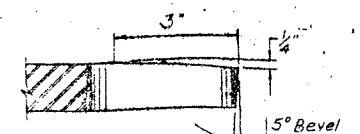
SECTION B-B  
Scale: 1"=1'-0"



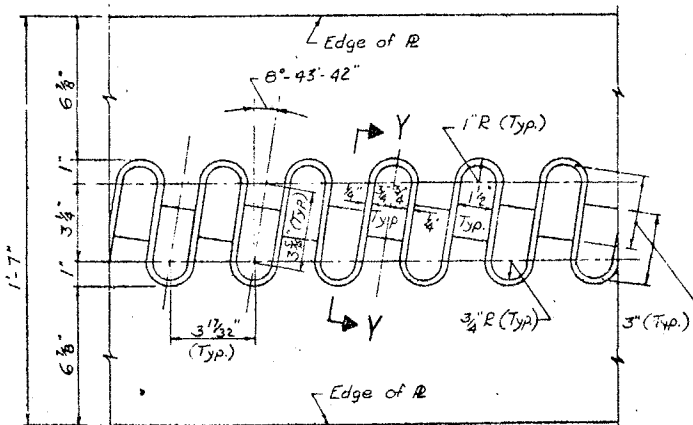
FINGER PLATE PLAN  
Scale: 1"=1'-0"



SECTION X-X.



SECTION Y-Y  
No Scale



FINGER DETAIL  
Scale: 3" = 1'-0"

NOTES:  
Finger R's shall follow slope and grade of roadway. All steel shall be Item E9 unless otherwise indicated.  
The 1/2" finger plates, the 1/4" vertical side plates, and 1/4" bent deflector plates shall be corrosion resistant steel A.S.T.M. Designation A242.

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

FINGER JOINT AT PIERS 3,4,5

DRAWING NO. 31 OF 50



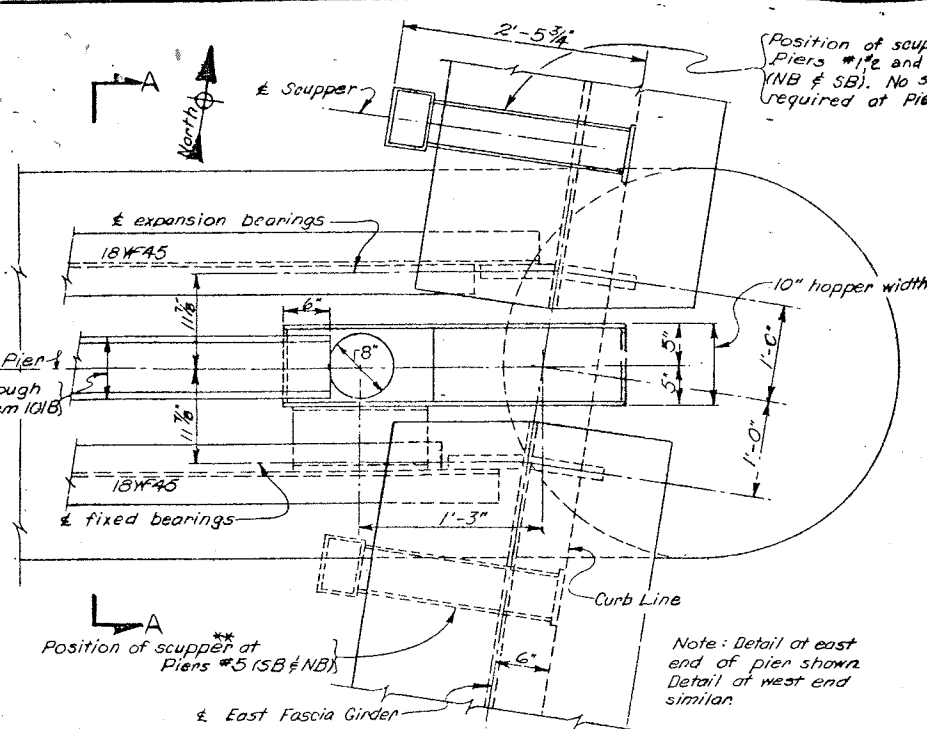
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-680-3(23) 1-481-21116	210	308

**INTERSTATE ROUTE CONNECTION 570**  
BUTTERNUT INTERCHANGE (PHASE 2)  
ONEIDA COUNTY

Hoppers and downspouts (including all necessary pipe supports, hangers, and fittings) shall be paid for under Item 13DE-6 & Item 13DE-8.

Hopper shall be fabricated from steel plates, 3/8 inch thick, A.S.T.M. Designation A36 Steel. Hopper shall be galvanized after fabrication is complete in accordance with M19.

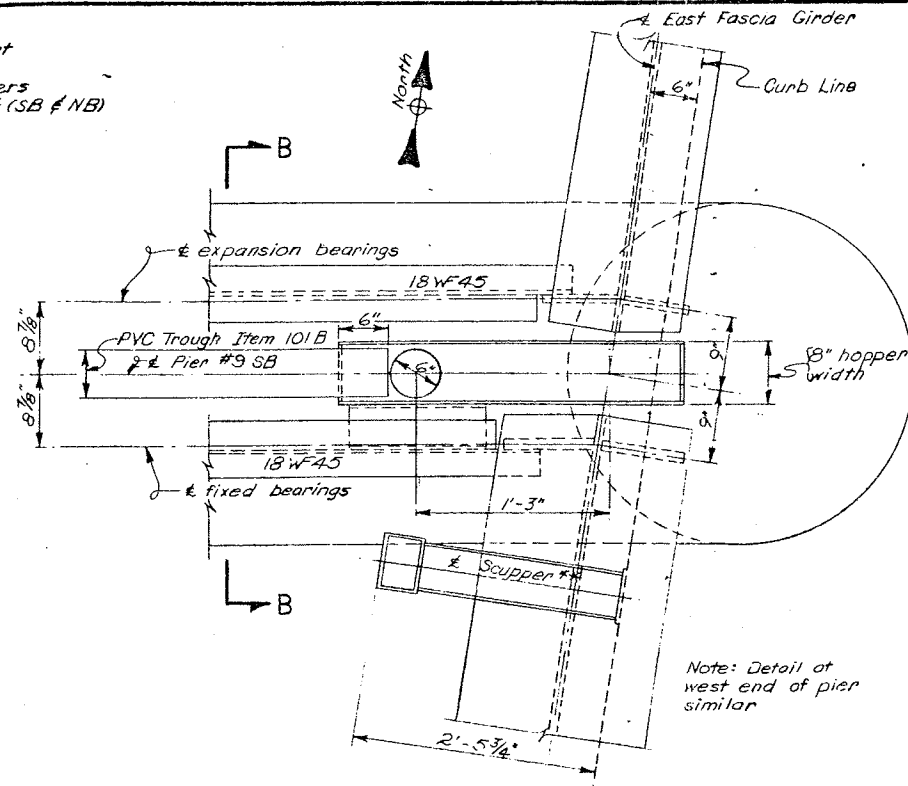
All bends in downspouts will be long radius bends. All indicated slopes on horizontal pipe runs will be the minimum allowed and the long radius bends will be fabricated to take this slope into account. All costs involved will be included in the price bid for Item 13DE-6 & Item 13DE-8.



PLAN AT EAST END, PIERS 1,2,3,4 8 5(NB & SB)

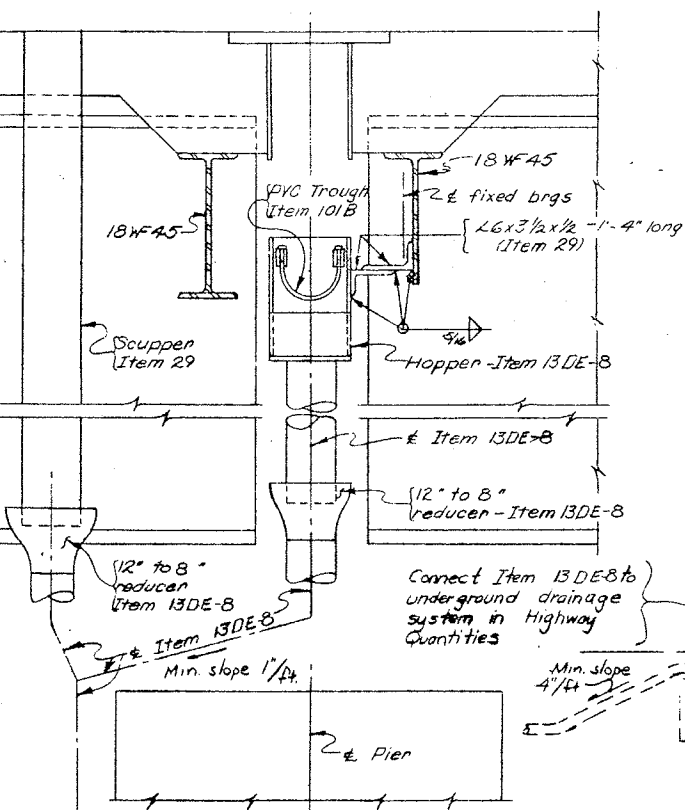
Scale: 1" = 1'-0"

\*\*Adjust exact location of scuppers which drain into downspouts systems so as to accommodate the location of the downspouts.  
Adjust exact location of scuppers which drain directly onto the ground so as not to spill on piers or onto diaphragms



PLAN AT EAST END OF PIER #9 SOUTHBOUND

Scale: 1" = 1'-0"



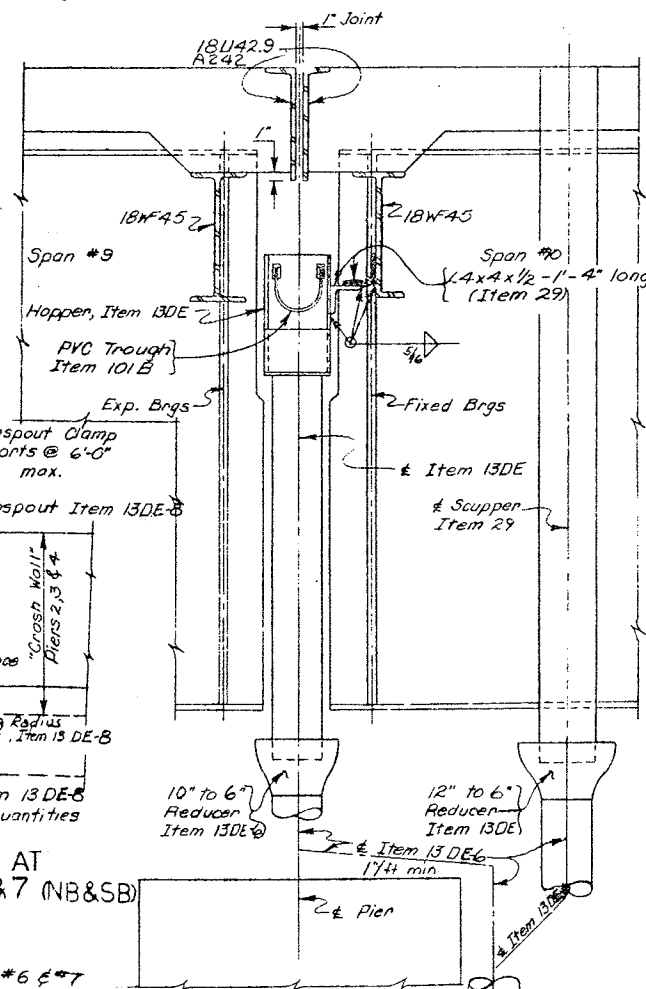
SECTION A-A

Scale: 1" = 1'-0"

PARTIAL ELEVATION AT PIERS 1,2,3,4,5,6 8 7 (NB&SB)

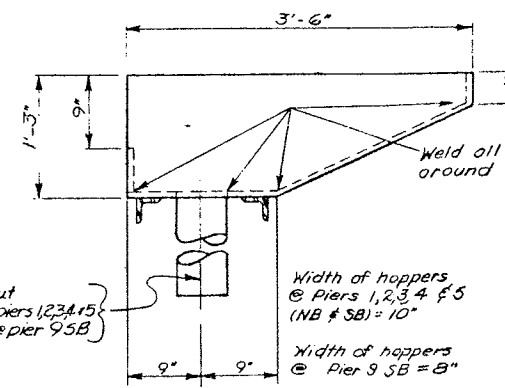
Scale: 3/16" = 1'-0"

\*No Hopper at Piers #6 & #7  
Downspout drains only the scupper.



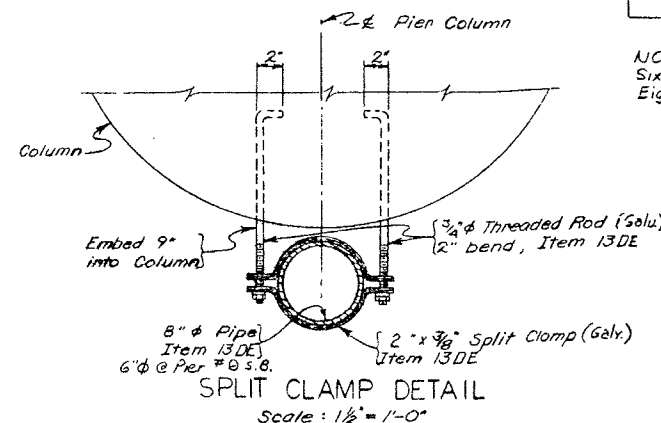
SECTION B-B

Scale: 1" = 1'-0"



HOPPER ELEVATION

Scale: 1" = 1'-0"



SPLIT CLAMP DETAIL

Scale: 1 1/2" = 1'-0"

NOTES:  
Six inch diameter downspouts shall be paid for under Item 13DE-6  
Eight inch diameter downspouts shall be paid for under Item 13DE-8

PIER NO.	JOINTS			SCUPPER **	DOWNSPOUT
	EXP. JT. SEALED WITH PREFORMED JOINT SEALER	OPEN JOINT WITH HOPPER AND TROUGH	FINGER JOINT WITH HOPPER AND TROUGH		
1		✓		(East & West curb lines North side of Pier)	✓ (8" dia.)
2		✓		(East & West curb lines North side of Pier)	✓ (8" dia.)
3			✓	(East & West curb lines North side of Pier)	✓ (8" dia.)
4			✓	None	✓ (8" dia.)
5			✓	(East & West curb lines South side of Pier)	✓ (8" dia.)
6	✓			(East & West curb lines South side of Pier)	✓ (8" dia.)
7	✓			(East & West curb lines South side of Pier)	✓ (8" dia.)
8	✓			(East & West curb lines South side of Pier)	
9	NB only	SB only		(East & West curb lines South side of Pier)	SB only (8" dia.)
10	✓			(East curb line only South side of Pier)	
11	✓			(East curb line only South side of pier)	
12	✓			(East curb line only South side of pier)	
13	✓			(East curb line only South side of pier)	
14	✓			(East curb line only South side of pier)	

BRIDGE NO. 2

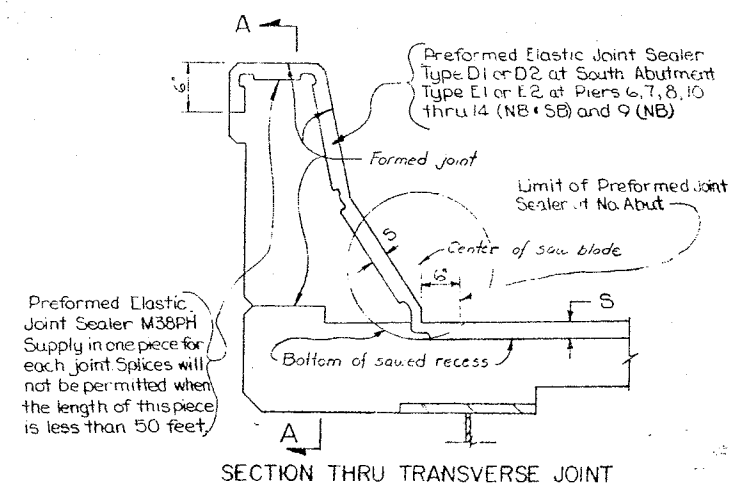
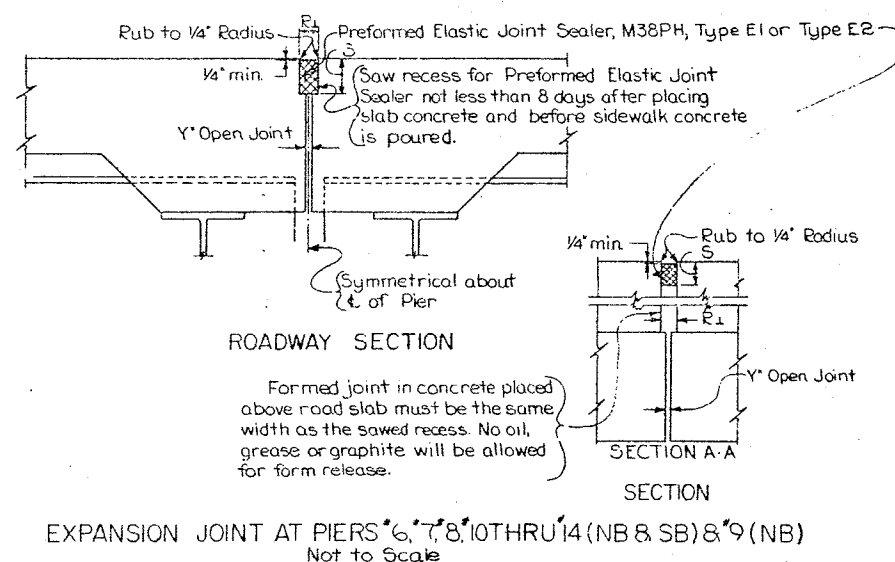
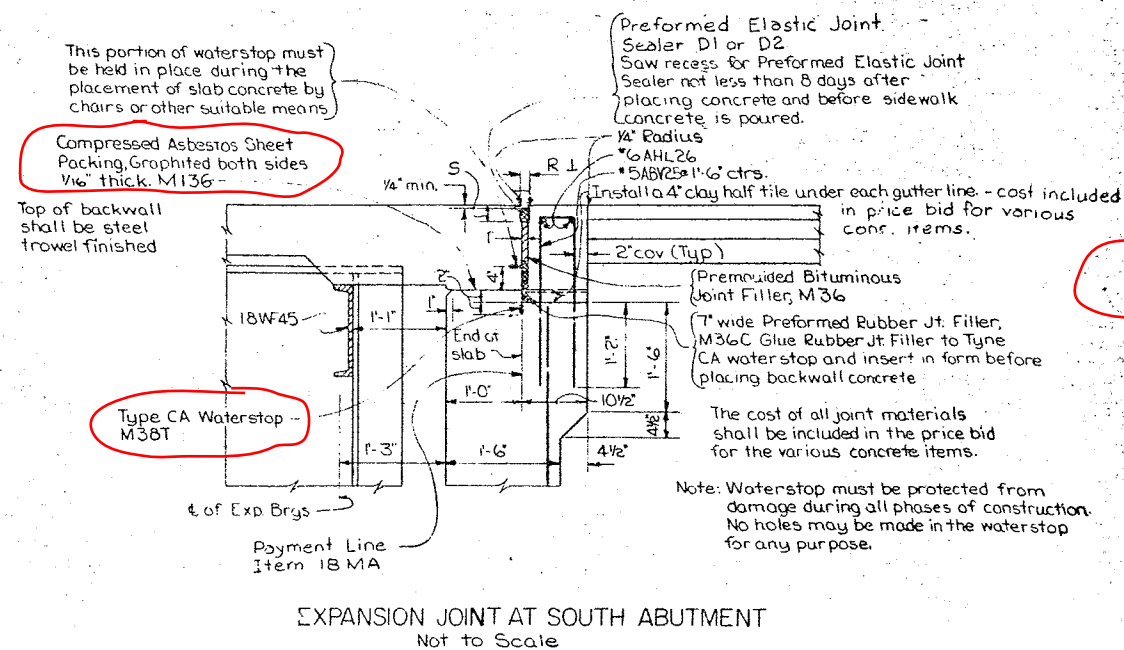
INTERSTATE ROUTE 481 OVER DEWITT YARDS

DOWNSPOUT DETAILS

DRAWING NO. 32 OF 50

PROJECT ENGINEER: R. Parker  
IN CHARGE OF: F.W. Eikel  
DESIGNED BY:  
DESIGN CHECKED BY:  
DETAILED BY: J. Durrant  
DETAIL CHECKED BY: F.W. Eikel





JOINT DIMENSIONS				
Performed Elastic Joint Sealer	R	S	Y	T
Type E1	17/8"	4Y8	3/4"	3/32"
Type E2	17/8"	3/8"	3/4"	3/32"
Type D1	15/8"	3/8"	1"	5/64"
Type D2	15/8"	3/8"	1"	5/64"

Notes:

- 'E' dimension is measured at 68° F.
- 'T' is the amount that 'E' must be decreased for every 10° rise in temperature or increased for every 10° fall in temperature.

Notes. A) This portion of waterstop must be held in place during the placement of slab concrete by chairs or other suitable means.  
B) Glue Rubber Joint Filler to Type CA Waterstop with an approved type of cement and insert in form before placing backwall concrete.

Exposed waterstop must be protected from damage by suitable means during all phases of construction. No holes may be made in the waterstop for any purpose.

The cost of all joint materials shall be included in the price bid for the various concrete items.

All splices shall be thermal splices. Method for field splicing waterstop shall be approved by Deputy Chief Engineer, Design.

PROJECT ENGINEER R L Parker  
IN CHARGE OF J B Sherman  
DESIGNED BY \_\_\_\_\_  
DESIGN CHECKED BY \_\_\_\_\_  
DETAILS BY J F Darcy  
FINAL CHECKED BY JW Edl

BRIDGE NO. 2

INTERSTATE ROUTE 481 OVER DEWITT YARDS

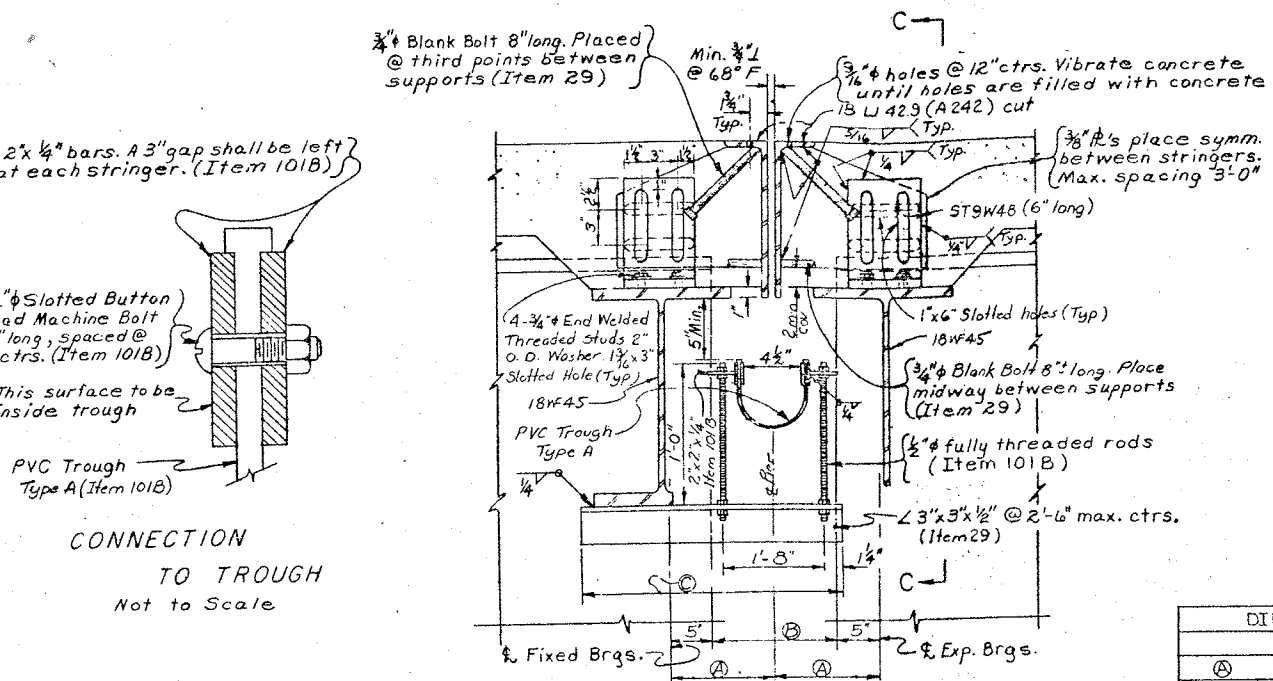
### MISCELLANEOUS DETAILS

DRAWING NO. 33 OF 50



FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-590-2 (210) L.A.S. 4011G	212	309

INTERSTATE ROUTE 481 OVER DEWITT YARDS  
 BUTTERNUT INTERCHANGE (RAMP 2)  
 ORANGETA COUNTY

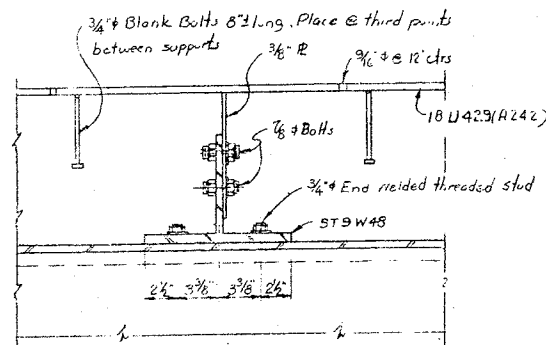


OPEN JOINT AT PIERS 9SB, 1 & 2 NB & SB  
 Not to Scale

DIMENSION TABLE		
	1142 NB & SB	9SB
Ⓐ	1'-0"	9'
Ⓑ	1'-2"	8'
Ⓒ	2'-0"	1'-9"

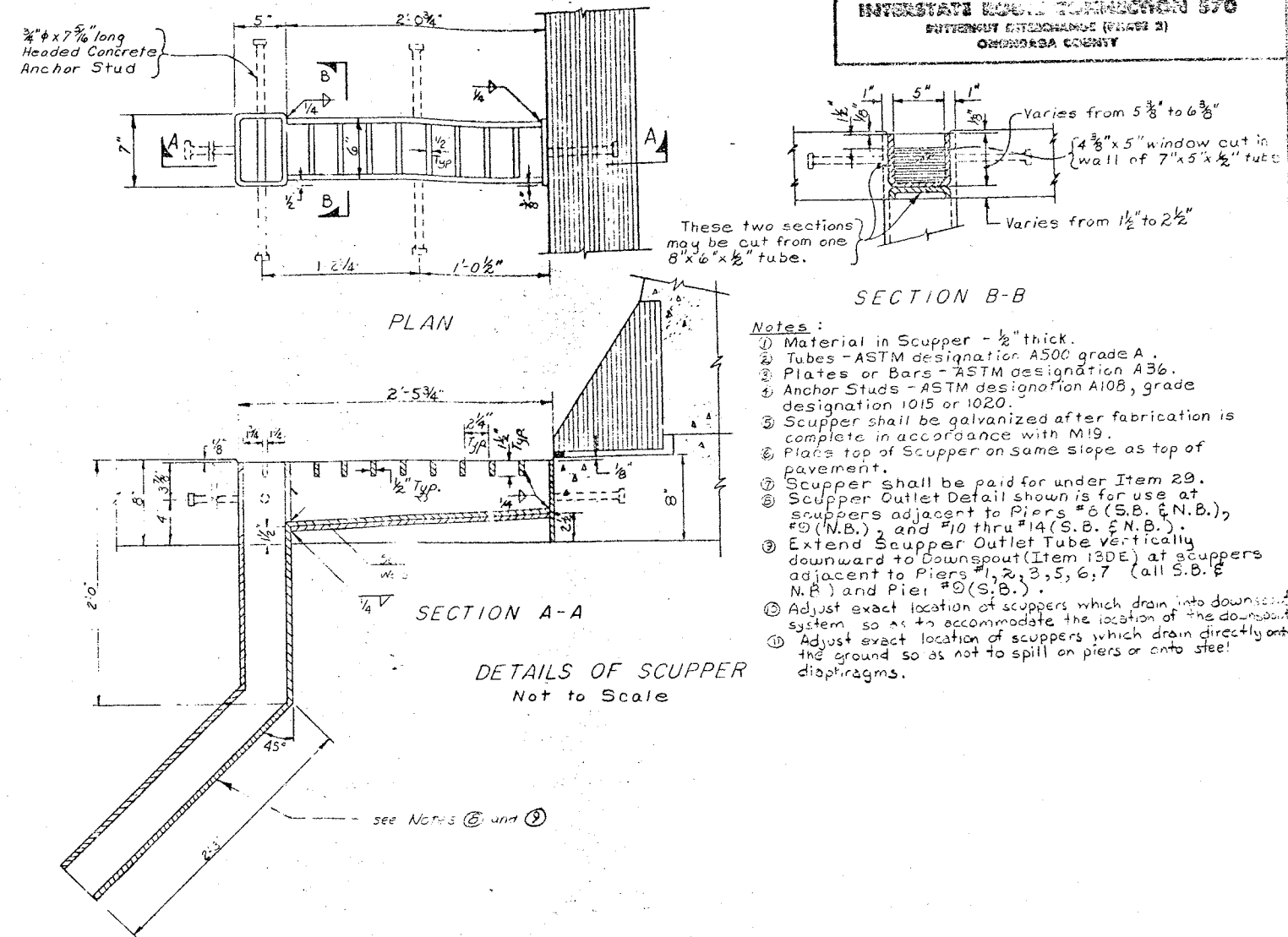
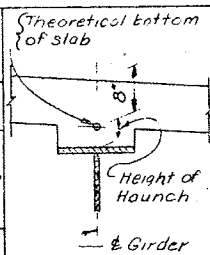
Note:

3/4" end welded headed studs, 8"± long, may be substituted for the 3/4" Blank Bolts.



SECTION C-C  
 No Scale

TABLE OF HAUNCH HEIGHTS (AT ENDS OF GIRDERS)			
GIRDER		Height of Haunch	
		@ exp. brgs. (South end of Girder)	@ fix. brgs. (North End of Girder)
Span 1 (SB & NB)	Fascias (G1 & G4) Interiors (G2 & G3)	3 1/2" 3 1/2"	3 1/2" 3 1/2"
Span 2 (SB & NB)	Fascias (G1 & G4) Interiors (G2 & G3)	3 1/2" 3 1/2"	3 1/2" 3 1/2"
Span 3 (SB & NB)	Fascias (G1 & G4) Interiors (G2 & G3)	3 3/8" 3 1/2"	3 3/8" 3 1/2"
Span 4, 5 & 6 (SB & NB)	Fascias (G1 & G4) Interiors (G2 & G3)	3 1/4" 3 1/4"	3 1/4" 3 1/4"
Span 7, 8 & 9 (SB & NB)	Fascias (G1 & G4) Interiors (G2 & G3)	3 1/2" 3 1/2"	3 1/2" 3 1/2"
Span 10 (Southbound)	Fascias (G1 & G4) Interiors (G2 & G3)	3 1/4" 3 3/8"	3 1/4" 3 3/8"
Span 10 (Northbound)	Fascias (G1 & G4) Interiors (G2 & G3)	3 1/2" 3 1/2"	3 1/2" 3 1/2"
Span 11 to 15 S.B. & N.B.	Fascias (G1 & G4) Interiors (G2 & G3)	3 1/2" 3 1/2"	3 1/2" 3 1/2"



Notes:

- Material in Scupper - 1/2" thick.
- Tubes - ASTM designation A500 grade A.
- Plates or Bars - ASTM designation A36.
- Anchor Studs - ASTM designation A108, grade designation 1015 or 1020.
- Scupper shall be galvanized after fabrication is complete in accordance with M19.
- Place top of Scupper on same slope as top of pavement.
- Scupper shall be paid for under Item 29.
- Scupper Outlet Detail shown is for use at scuppers adjacent to Piers #6 (S.B. & N.B.), #9 (N.B.) and #10 thru #14 (S.B. & N.B.).
- Extend Scupper Outlet Tube vertically downward to Downspout (Item 13DE) at scuppers adjacent to Piers #1, 2, 3, 5, 6, 7 (all S.B. & N.B.) and Pier #9 (S.B.).
- Adjust exact location of scuppers which drain into downspout system so as to accommodate the location of the downspout.
- Adjust exact location of scuppers which drain directly onto the ground so as not to spill on piers or onto steel diaphragms.

BRIDGE NO. 2  
 INTERSTATE ROUTE 481 OVER DEWITT YARDS

MISCELLANEOUS DETAILS

DRAWING NO. 34 OF 57

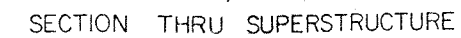
PROJECT ENGINEER R. Parker  
 IN CHARGE OF J.B. Sherman  
 DESIGNER BY S. Rowe  
 DESIGN CHECKED BY N.A. Joppes  
 DETAIL BY U.C. Thompson  
 DETAIL CHECKED BY J.W. Galt



This diagram is a plan view of a railroad crossing. It shows the layout of the crossing, including the main crossing area and the approach areas. Key components and dimensions are labeled:

- Aluminum Railroad - 1 Rail:** Points to the main crossing rail.
- Rail Terminal End:** Points to the end of the crossing rail.
- Splice in Box Beam Guide Rail:** Points to a splice in the guide rail.
- Box Beam Guide Rail:** Points to the guide rail.
- Granite Curb Type R2:** Points to the curb on the left side of the crossing.
- Granite Curb Type T1:** Points to the curb on the right side of the crossing.
- Granite Curb Type S:** Points to the curb on the right side of the crossing.
- Dimensions:**
  - 7'-6" (Total width of the crossing area)
  - 1'-6" (Width of the crossing area)
  - 4'-0" (Width of the crossing area)
  - 5'-0" (Width of the crossing area)
  - 6'-6" (Width of the crossing area)
  - 8'-0" (Width of the crossing area)
- PLAN:** The title of the diagram.
- Separate payments will be made for the Types S and T1 curbs lying within these limits:** A note indicating that separate payments will be made for these types of curbs.

- Separate payments will be made for the Types S and T1 curbs lying within these limits



This elevation drawing illustrates a bridge railing section. The railing is composed of an aluminum railing on top and granite curbs below. The aluminum railing has a height of 4'0" from the top of the granite curb to the top of the railing. The granite curb is made of Type 5 granite and has a height of 5' from the base to the top of the railing. The railing is supported by a concrete base. The base has a width of 5'0" and a height of 6". The base is made of concrete and has a width of 5'0" at the base. The railing is made of aluminum and has a height of 4'0" from the top of the granite curb to the top of the railing. The railing is supported by a concrete base. The base has a width of 5'0" and a height of 6". The base is made of concrete and has a width of 5'0" at the base. The railing is made of aluminum and has a height of 4'0" from the top of the granite curb to the top of the railing. The railing is supported by a concrete base. The base has a width of 5'0" and a height of 6". The base is made of concrete and has a width of 5'0" at the base.

ELEVATION



SECTION D-D

1/2" bar meeting requirements of M17, galvanized in accordance with M19. Cost included in price bid for curb item.

Technical drawing of a Granite Curb - Type RI. The drawing includes a front view and a side view.

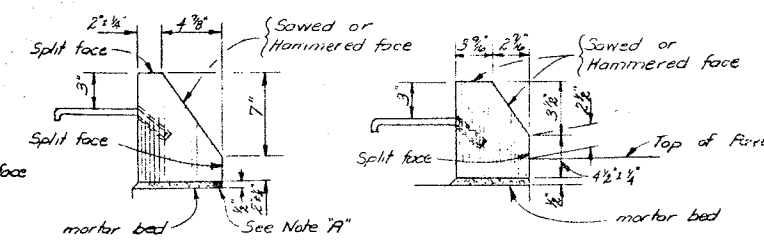
**Front View Dimensions and Labels:**

- Top width:  $2' \frac{1}{2}"$
- Top width:  $9"$
- Left side height:  $14"$
- Bottom width:  $2' \frac{1}{2}"$
- Labels: "Split face" (top left), "Sawn or hammered face" (top right), "1/2" deep mortar bed" (bottom left), "See Note 'A'" (bottom right).

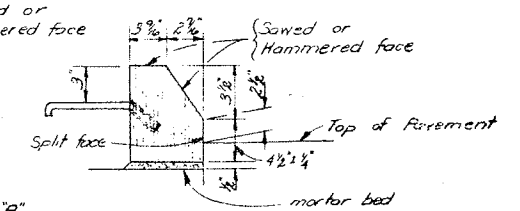
**Side View Dimensions and Labels:**

- Top width:  $2' \frac{1}{2}"$
- Left side height:  $14"$
- Labels: "Split face" (top left), "Split face" (bottom left), "mortar" (bottom right).

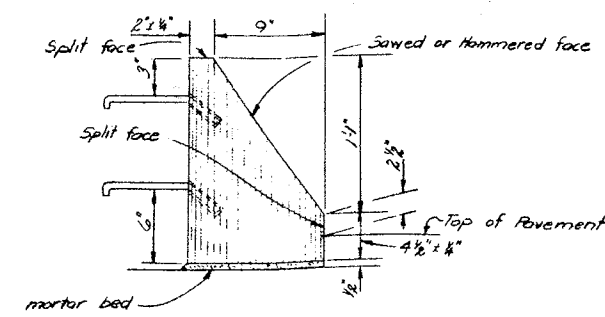
GRANITE CURB- TYPE RI



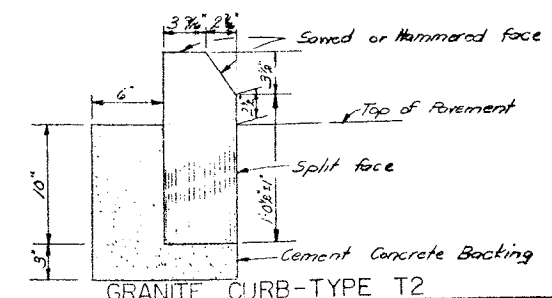
GRANITE CURB-TYPE S



GRANITE CURB-TYPE TI



GRANITE CURB - TYPE R2



GRANITE CURB-TYPE T2

INTERSTATE ROUTE 481 OVER DEWITT YARDS

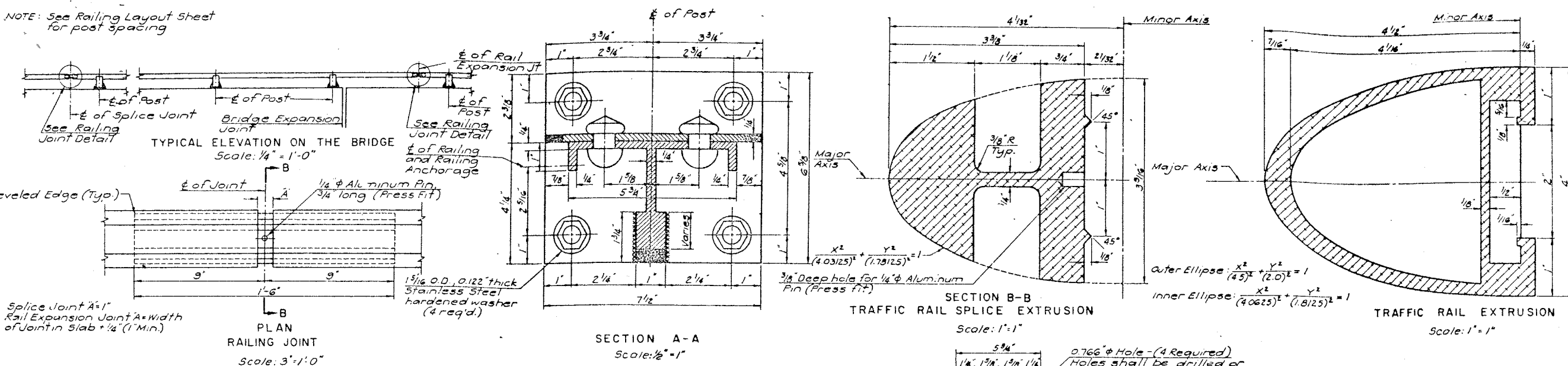
CONCRETE PARAPET

DRAWING NO. 35 OF 50.



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-090-3026	214	309
INTERSTATE ROUTE CONNECTION 570				
BUTTERNUT INTERCHANGE (PHASE 2)				
ONONDAGA COUNTY				

NOTE: See Railing Layout Sheet for post spacing



**Notes:**  
 All railing is to be fabricated and erected so that the rail is parallel to the parapet. Since the finished railing must meet all requirements of fit, alignment and grade to the full satisfaction of the Engineer, it is suggested that complete field measurements be made before any shop fabrication is performed.

Aluminum rails, posts, post bases, clamp bars including stainless steel cap screws and lock washers, rail splices, rivets, end caps, pins, rail terminal ends, aluminum caulking compound and any necessary shims and/or pads and steel splice joint assembly between the end of the parapet and the box beam guide railing including tubular rail splice, end splice plate and anchor studs shall be paid for under the railing item.

Anchor bolts, nuts and washers shall be paid for under Item 20.

After the anchor bolt nuts have been placed and tightened to the satisfaction of the Engineer, the bolts shall be cut off 1/8 inch above the nut and peened.

Rails shall be continuous over a minimum of three posts. On "W" type wingwalls the rails may be continuous over two posts.

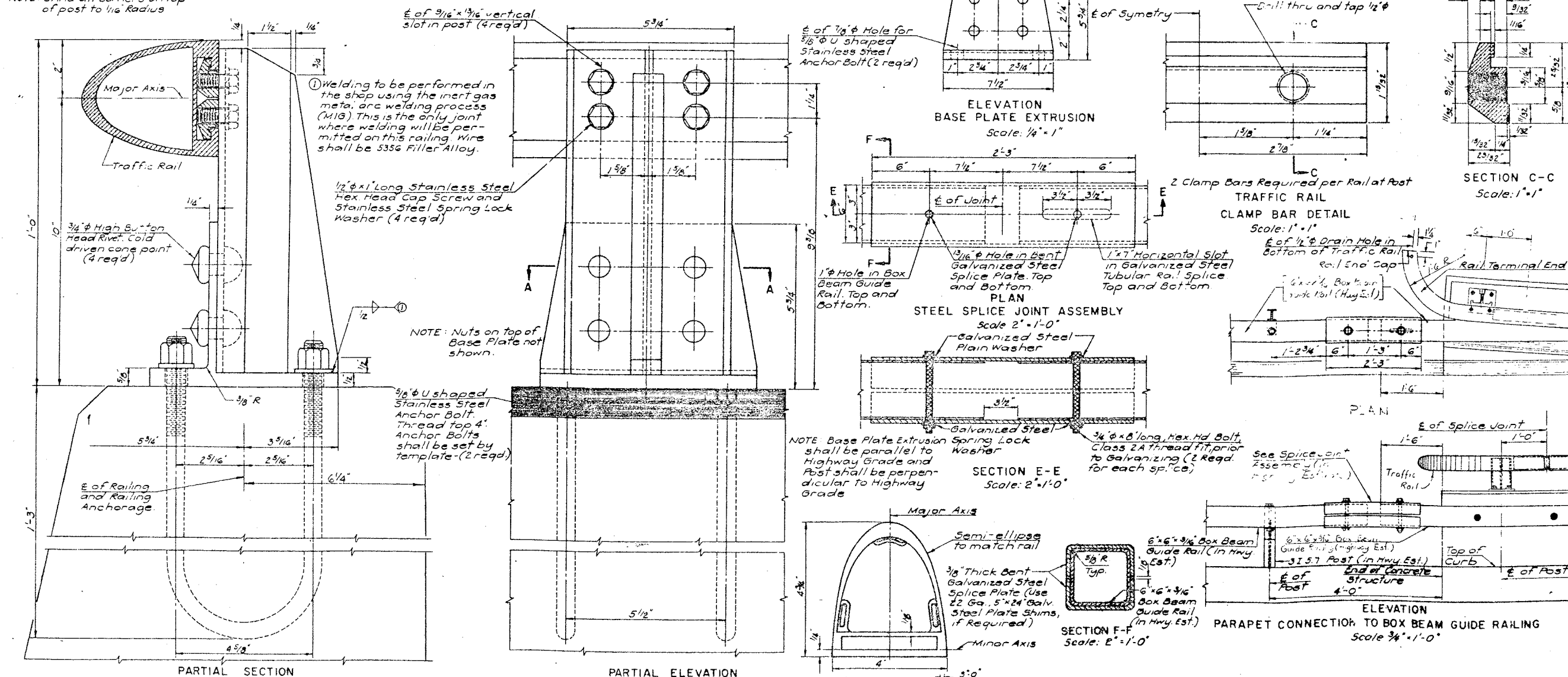
Aluminum rivets shall be cold driven.

Galvanizing shall be done in accordance with Material Specification M19. Bolts to be galvanized shall have a Class 2A thread fit prior to galvanizing. Materials used in the manufacture of this railing shall conform to the requirements and/or specifications listed below:

Piece	ASTM Designation	Commercial Alloy & Temp.
Aluminum Extrusions (Posts, Post bases, rails, rail splices, clamp bars, pins and rail terminal ends)	B221	6061-T6
Aluminum Rivets	B316	6061-T6
Aluminum Plate Shims	B209	1100-0
Aluminum Rail End Caps	B26	43F or 356F
Steel Plate Shims	A36	
Steel Tubular Rail Splices	A500 Grade B or A501	
Steel Splice Plates	A36	
Steel Splice Bolts, Nuts and Washers	A307	
Steel Anchor Studs	A307	
Stainless Steel Anchor Bolts (100,000 psi. Min. Tensile Strength and 80,000 psi. Min. Yield Point)	A193 Grade B5 or A276 Type 304 or A276 Type 430	

Stainless Steel Cap Screws A193 Grade B8  
 Stainless Steel Spring Lock Washers shall be in accordance with the Military Standard MS3533n  
 Stainless Steel Nuts for Anchor Bolts A194 Grade 6  
 Stainless Steel Washers for Anchor Bolts A167 Type 302 or 304

NOTE: Grind all corners on top of post to 1/16" Radius



BRIDGE RAILING DETAILS  
 Scale: 1/8" = 1'-0"

ASPH Intermediate Spec-I(44)

DESIGNED BY	REV 3
CHECKED BY	REV 2
APPROVED BY	REV 1

BRIDGE NO. 2

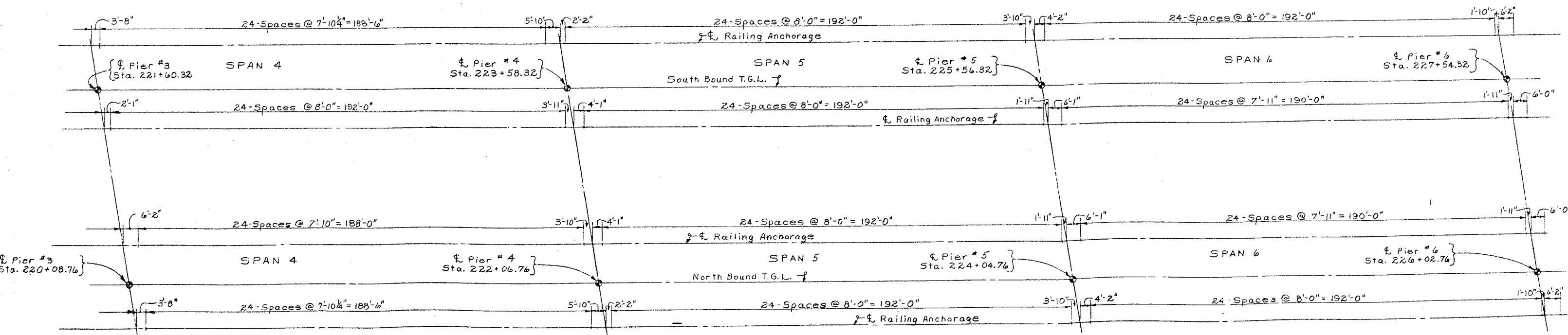
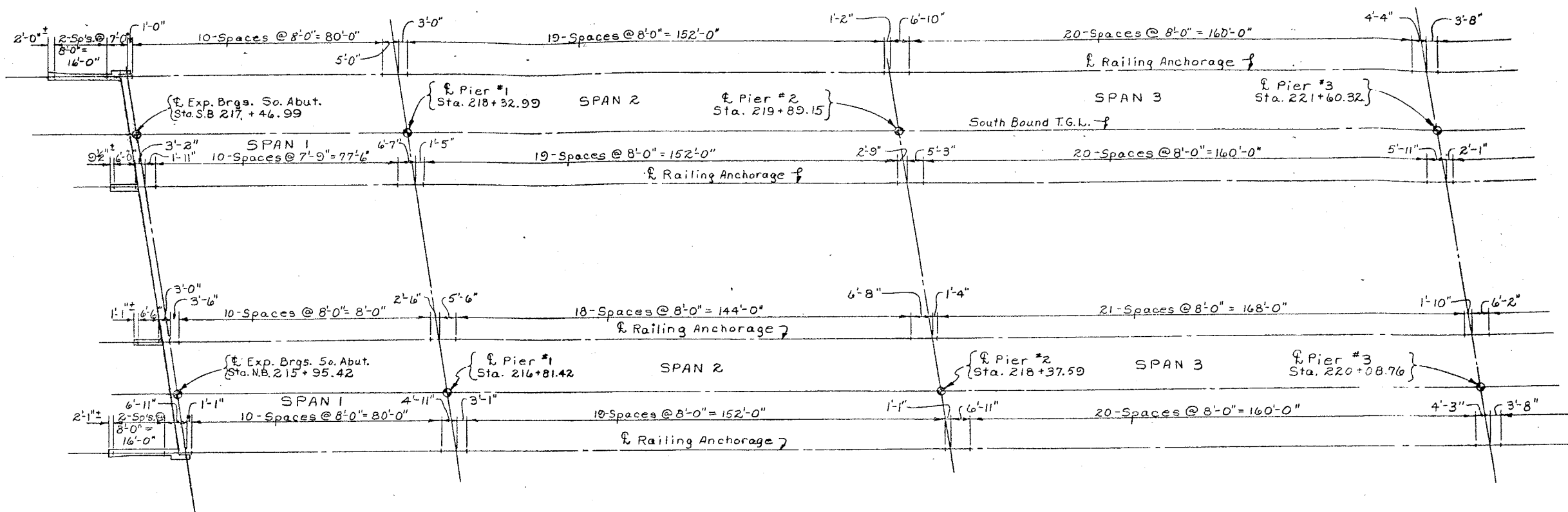
INTERSTATE ROUTE 481 OVER DENNIS YANOS

ALUMINUM BRIDGE RAILING - 1 RAIL



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-680-8-15 1-481-24110	215	SDR

INTERSTATE ROUTE CONNECTION 570  
BUTTESS COUNTY (PAGE 2)  
ONEIDA COUNTY



RAILING LAYOUT  
Scale: 1" = 20'-0"

PROJECT ENGINEER R. Parker  
IN CHARGE OF F. Eckel  
DESIGNED BY J. C. Thompson  
DESIGN CHECKED BY D. H. Smith  
DETAILS BY J. C. Thompson  
DETAIL CHECKED BY D. H. Smith

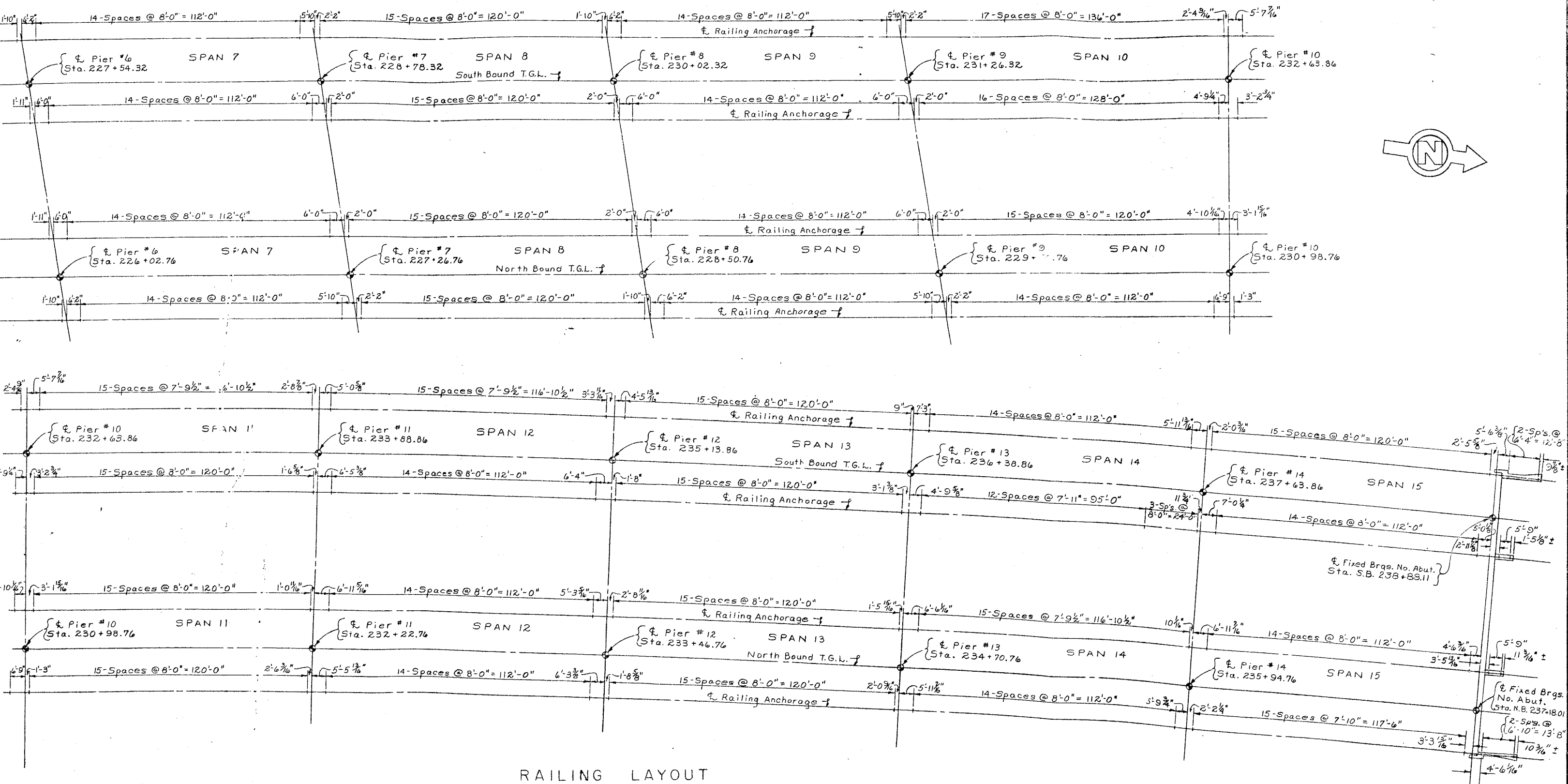
BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

RAILING LAYOUT

DRAWING NO. 20-1-10



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-610-3(23)	216	309
INTERSTATE ROUTE CONNECTION 570				
BUTTERNUT INTERCHANGE (PLAN 2)				
CHENANGO COUNTY				



PROJECT ENGINEER R. Parker  
IN CHARGE OF F. Eckel  
DESIGNED BY J.C. Thompson  
DESIGN CHECKED BY D.H. Smith  
ESTABLISHED BY J.C. Thompson  
REVISION CHECKED BY D.H. Smith

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

RAILING LAYOUT

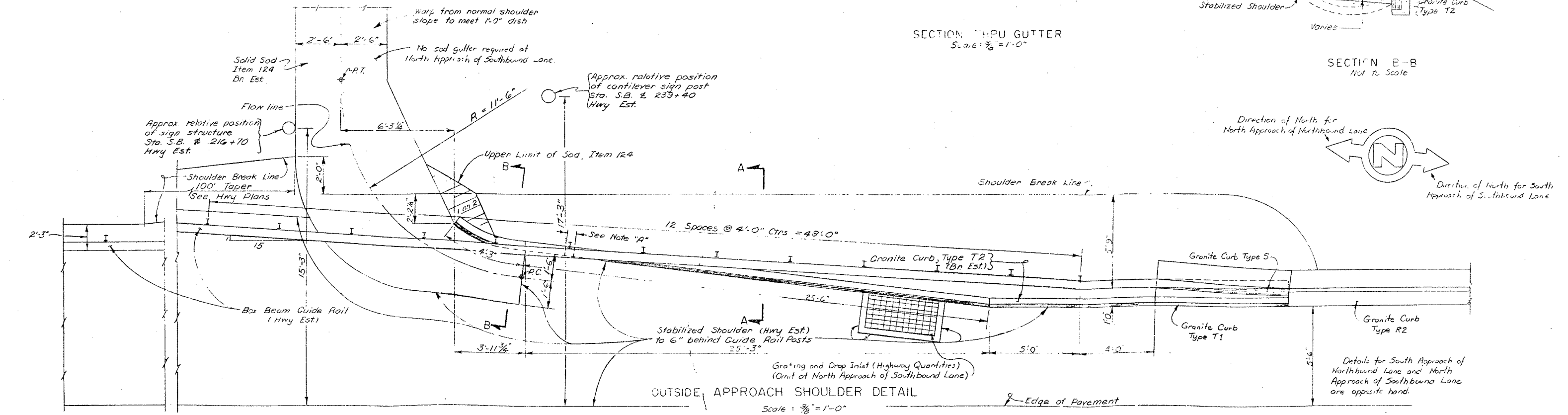
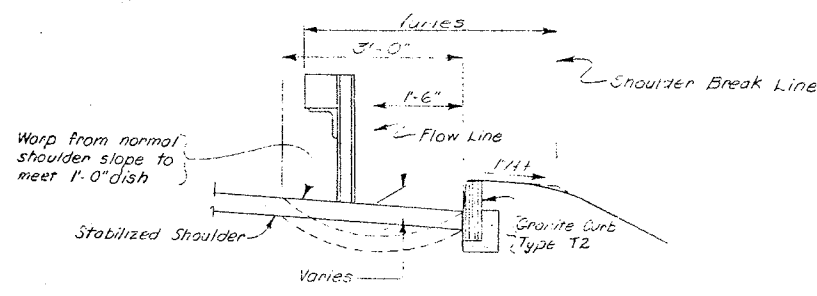
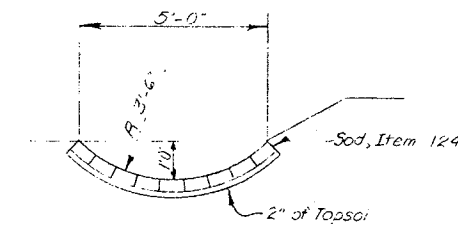
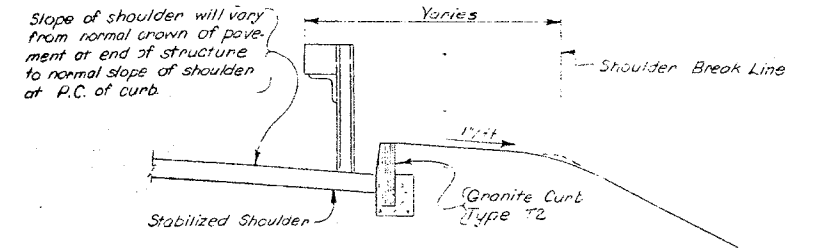
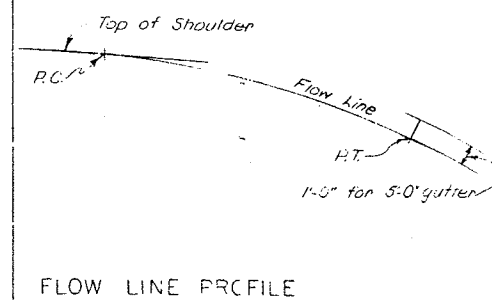
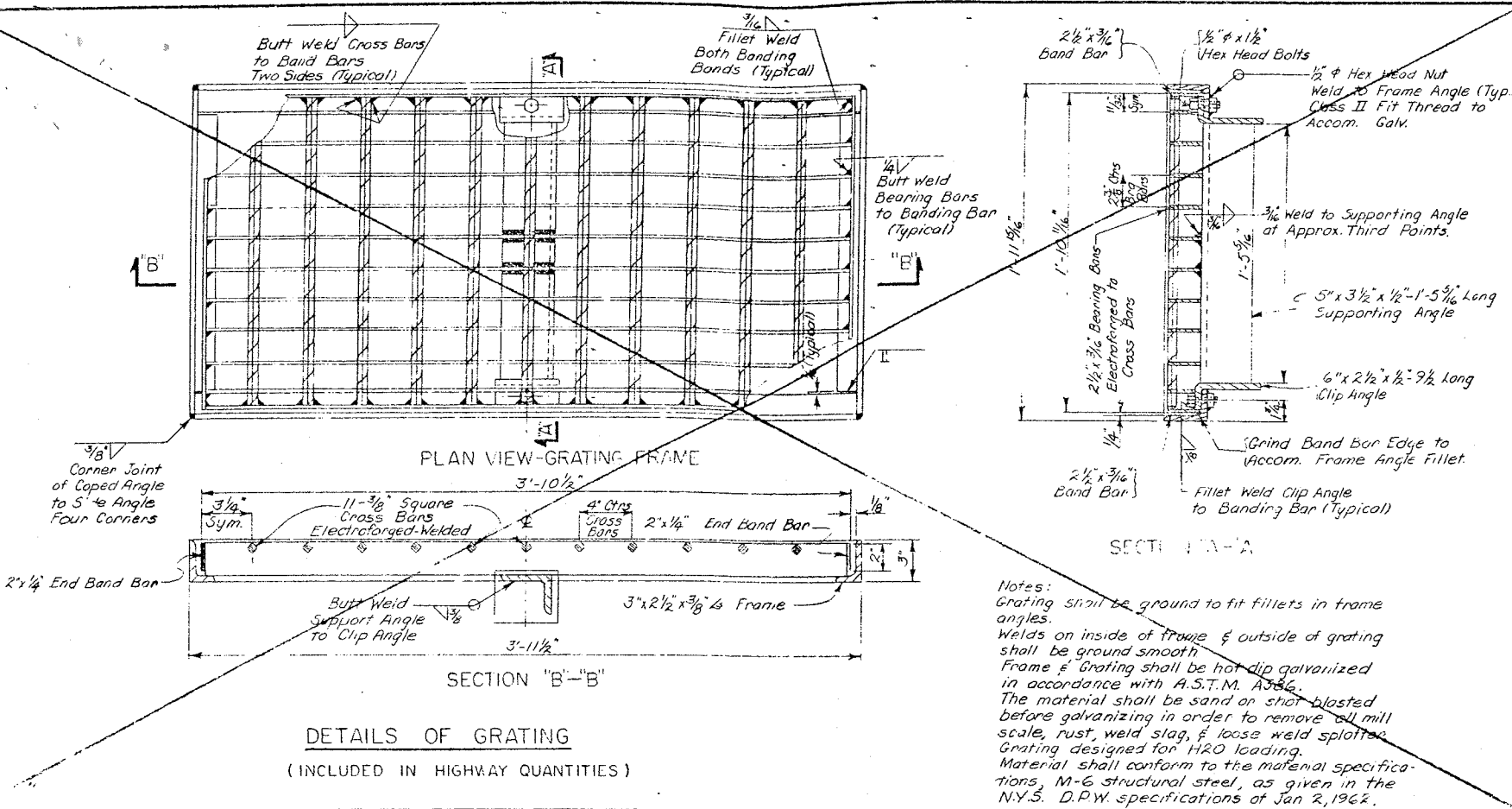






FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-555-3122 1-1-20.150	218	309

**INTERSTATE ROUTE CONNECTION 370**  
**BUSTERHUT INTERCHANGE (PHASE 2)**  
**ORONDAGA COUNTY**



Note "A" - 6" min. gap in granite curb to be filled with mortar after guide rail post has been set. This filled in portion shall be paid for at the unit price bid for the adjacent granite curb.

Grating and Drop Inlet to be included in the Hwy Est.

All sod to be included in the Bridge Estimate.

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DENWITZ YARDS

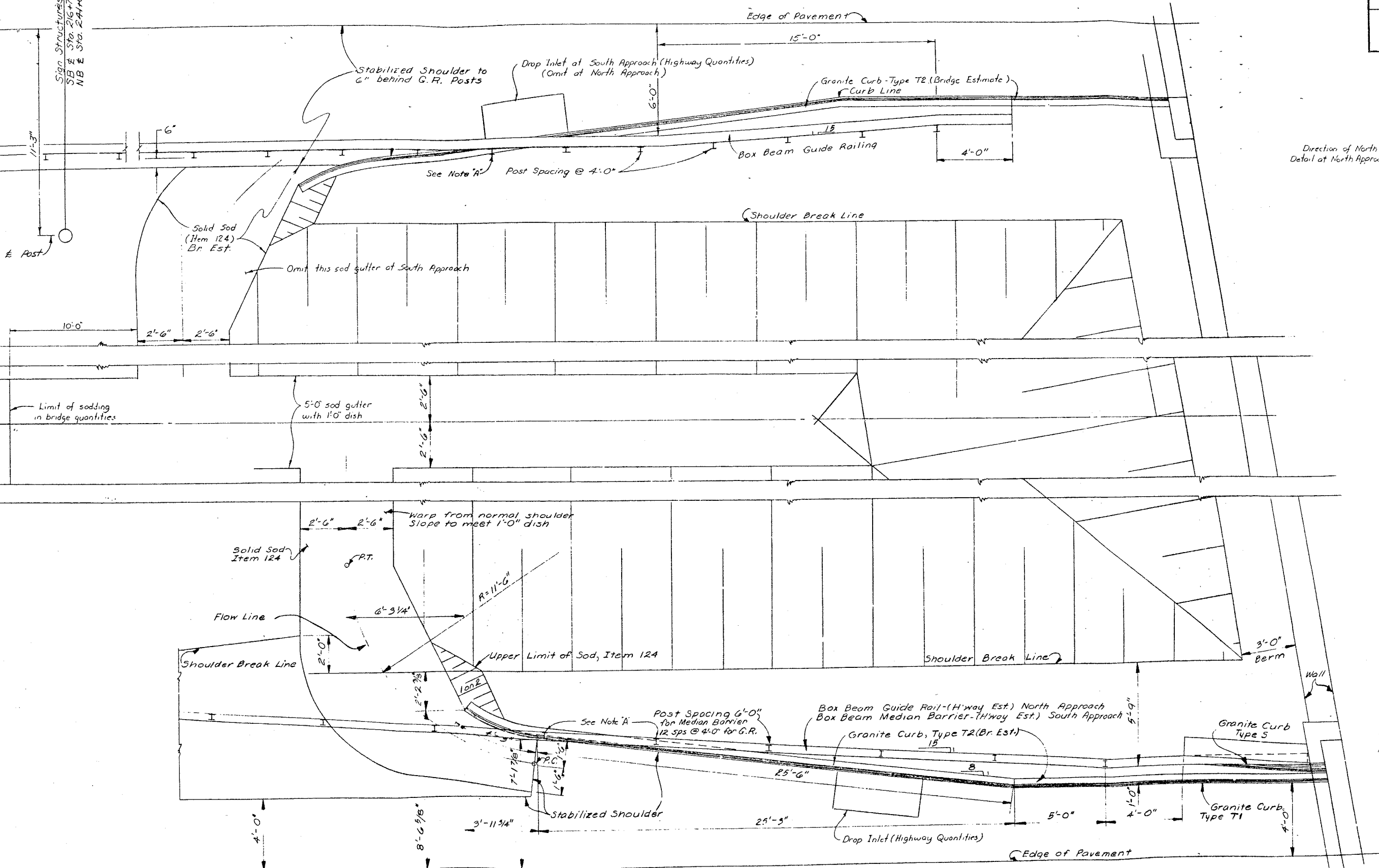
DRAINAGE DETAILS  
DRAWING NO. 40 OF 50

PROJECT ENGINEER R. PARKER  
CHARGE OF V. E. SHERMAN  
DESIGNED BY \_\_\_\_\_  
SIGN CHECKED BY \_\_\_\_\_  
TRAILED BY J. M. Murrant  
TAIL CHECKED BY F. W. Todd

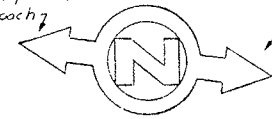


FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-690-3035 1-421-2116	219	309

**INTERSTATE ROUTE CORRECTION 570**  
BUTTERNUT INTERCHANGE (PHASE 2)  
ONONDAGA COUNTY



Direction of North for Wall  
Detail at North Approach



Direction of North for Wall  
Detail at South Approach

Note "A" 6" minimum gap in granite curb to be filled with mortar after guide post has been set. This filled in portion shall be paid for at this unit price b.d. for the adjacent granite curb.

MALL APPROACH SHOULDER DETAILS  
SCALE: 3/8"=1'-0"

PROJECT ENGINEER R. Parmer  
IN CHARGE OF F. W. Eckel  
DESIGNED BY  
DESIGN CHECKED BY  
DETAILED BY J. C. Colburn  
DETAIL CHECKED BY F. W. Eckel

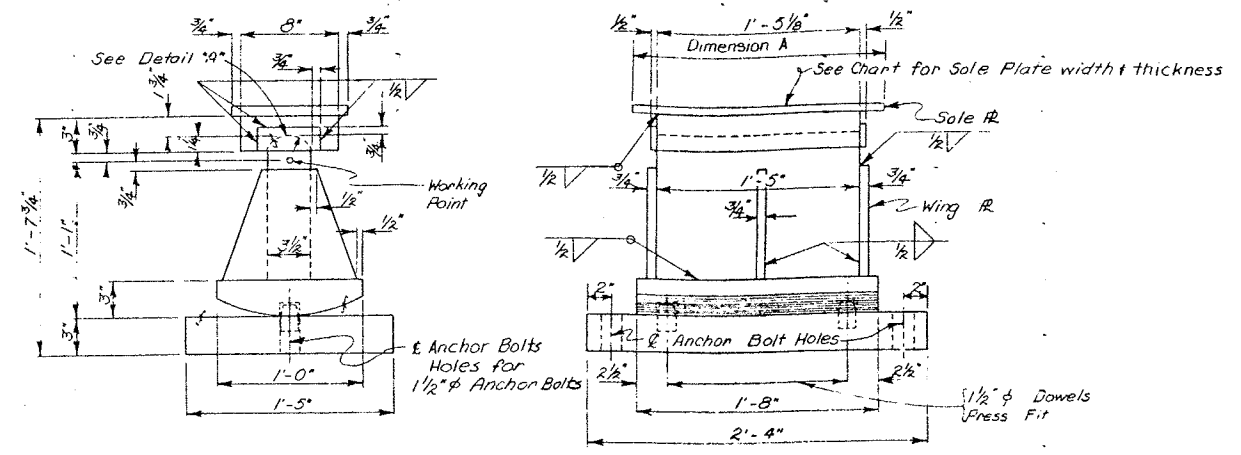
BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS  
MALL APPROACH SHOULDER DETAILS

DRAWING NO. 41 OF 50

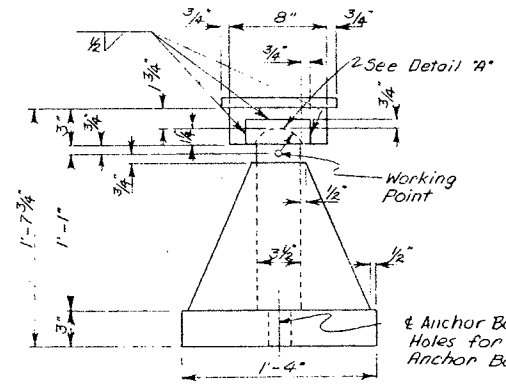


FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-481-2(116)	220	899

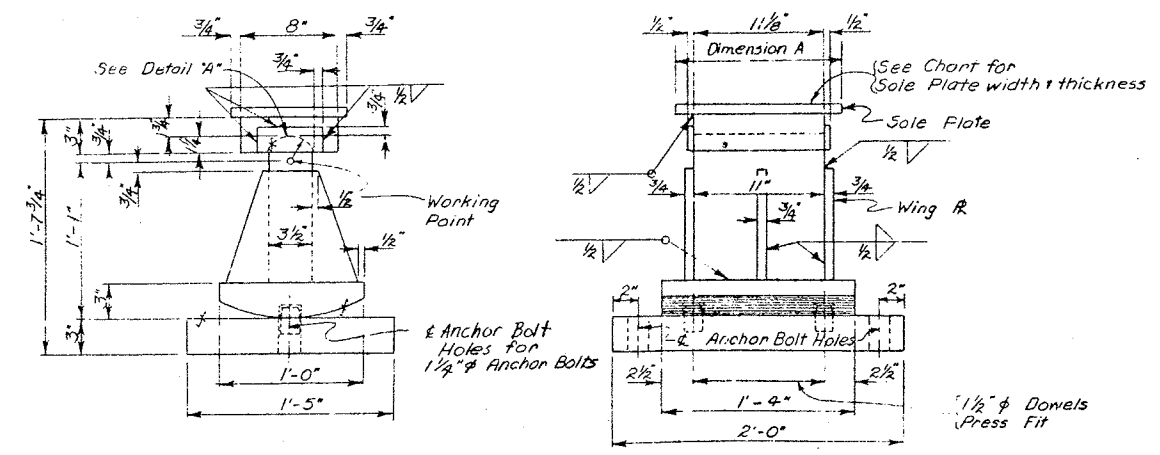
**INTERSTATE ROUTE CONNECTION 870**  
BUTTERNUT INTERCHANGE (PIECE 2)  
CHONDAGA COUNTY



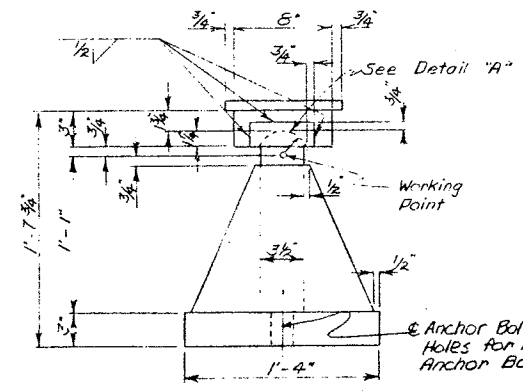
EXPANSION BEARING - TYPE II  
Scale: 1/2" = 1'-0"



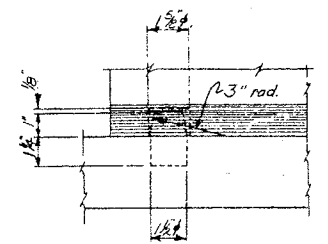
FIXED BEARING - TYPE II  
Scale: 1/2" = 1'-0"



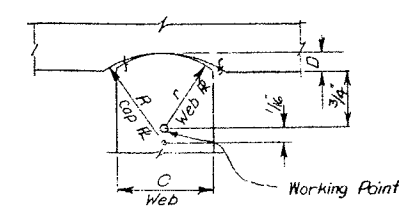
EXPANSION BEARING - TYPE I  
Scale: 1/2" = 1'-0"



FIXED BEARING - TYPE I  
Scale: 1/2" = 1'-0"

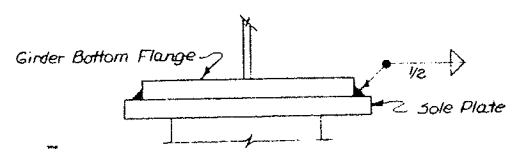


DETAIL OF DOWEL  
Scale: 3/4" = 1'-0"

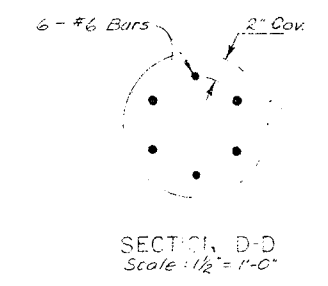


Bearing Type	R	r	C	D
Type I	2 1/4"	2"	3 1/2"	1 1/4"
Type II	2 1/4"	2"	3 1/2"	1 1/4"
Type III	2 1/4"	2"	3 1/2"	1 1/4"

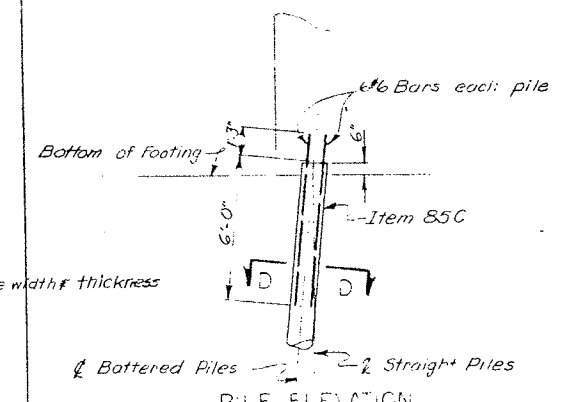
DETAIL A  
No Scale



TYPICAL SOLE PLATE TO GIRDER CONNECTION DETAIL  
No Scale

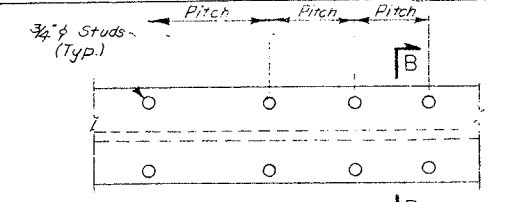


SECTION D-D  
Scale: 1/2" = 1'-0"

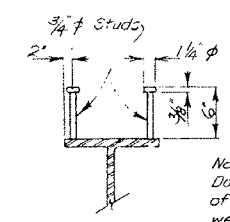


PILE ELEVATION  
Scale: 1/4" = 1'-0"

CAST-IN-PLACE CONCRETE PILES ITEM 85C



PARTIAL PLAN OF STUDS  
Scale: None



SECTION B-B  
Scale: None

STUD SHEAR CONNECTORS ITEM 28B

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

BEARINGS

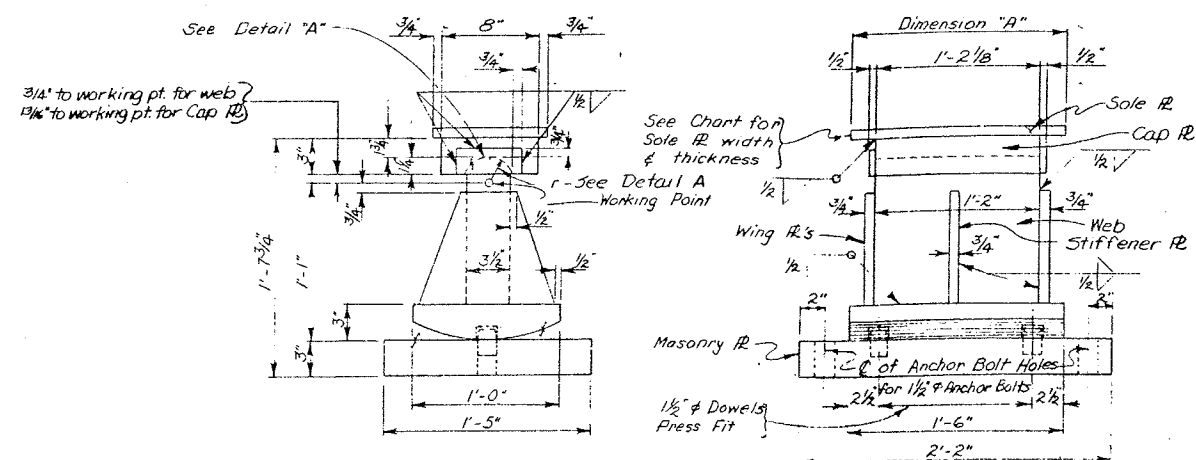
PROJECT ENGINEER E. Parker  
IN CHARGE OF F. Estel  
DESIGNED BY  
DESIGN CHECKED BY  
DETAIL CHECKED BY J. J. J. J.  
DETAIL CHECKED BY J. J. J. J.



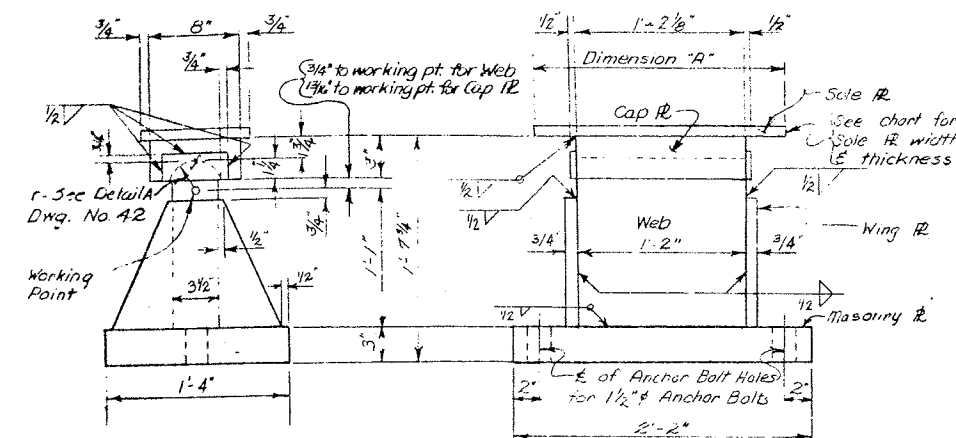
Note: See Miscellaneous Drawing #42 for Detail "A"  
& for Detail of Dowels.

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-48-1-2(116)	221	309

**INTERSTATE ROUTE CONNECTION 570**  
BUTTERNUT INTERCHANGE (PHASE 2)  
ONDAGA COUNTY



EXPANSION BEARING - TYPE III  
Scale:  $1\frac{1}{2}'' = 1'-0''$



FIXED BEARING - TYPE III  
Scale:  $1\frac{1}{2}'' = 1'-0''$

### BEARING SCHEDULE

#### SOUTHBOUND LANE

SPAN	GIRDER	BEARING TYPE		SOLE R. DIM. "A"	SOLE R. THICKNESS	
		EXP.	FIXED		EXP.	FIXED
1	1	I	I	1'-2"	3/4	3/4
	2	I	I	1'-7"	3/4	3/4
	3	I	I	1'-7"	3/4	3/4
	4	I	I	1'-2"	3/4	3/4
2	1	III	III	1'-11"	7/8	3/4
	2	III	III	1'-11"	7/8	3/4
	3	III	III	1'-11"	7/8	3/4
	4	III	III	1'-11"	7/8	3/4
3	1	III	III	2'-6"	3/4	3/4
	2	III	III	2'-4"	3/4	3/4
	3	III	III	2'-4"	3/4	3/4
	4	III	III	2'-6"	3/4	3/4
4	1	II	II	2'-8"	3/4	3/4
	2	II	II	2'-2"	1	3/4
	3	II	II	2'-2"	1	3/4
	4	II	II	2'-8"	1	3/4
5	1	II	II	2'-8"	3/4	7/8
	2	II	II	2'-2"	3/4	7/8
	3	II	II	2'-2"	3/4	7/8
	4	II	II	2'-8"	3/4	7/8
6	1	II	II	2'-8"	3/4	3/4
	2	II	II	2'-2"	3/4	1
	3	II	II	2'-2"	3/4	1
	4	II	II	2'-8"	3/4	3/4
7	1	II	I	1'-8"	3/4	1
	2	I	I	2'-0"	3/4	1
	3	I	I	2'-0"	3/4	1
	4	II	I	1'-8"	3/4	1
8	1	I	I	2'-1"	3/4	1
	2	I	I	2'-0"	3/4	1
	3	I	I	2'-0"	3/4	1
	4	I	I	2'-1"	3/4	1
9	1	I	I	2'-1"	3/4	1
	2	I	I	2'-0"	3/4	1
	3	I	I	2'-0"	3/4	1 1/8
	4	I	I	2'-1"	3/4	1 1/8
10	1	I	I	2'-1"	3/4	1 1/8
	2	I	I	2'-2"	3/4	1 1/8
	3	I	I	2'-2"	3/4	1 1/8
	4	I	I	2'-2"	3/4	1 1/8
11	1	I	I	2'-1"	3/4	1 1/4
	2	I	I	2'-0"	3/4	1 1/4
	3	I	I	2'-0"	3/4	1 1/4
	4	I	I	2'-1"	3/4	1 1/4
12	1	I	I	2'-1"	3/4	1 1/4
	2	I	I	2'-0"	3/4	1 1/4
	3	I	I	2'-0"	3/4	1 1/4
	4	I	I	2'-1"	3/4	1 1/4
13	1	I	I	2'-1"	3/4	1 1/4
	2	I	I	2'-0"	3/4	1 1/4
	3	I	I	2'-0"	3/4	1 1/4
	4	I	I	2'-1"	3/4	1 1/4
14	1	I	I	2'-1"	3/4	1 1/4
	2	I	I	2'-0"	3/4	1 1/4
	3	I	I	2'-0"	3/4	1 1/4
	4	I	I	2'-1"	3/4	1 1/4
15	1	I	I	2'-1"	3/4	3/4
	2	I	I	2'-0"	3/4	3/4
	3	I	I	2'-0"	3/4	3/4
	4	I	I	2'-1"	3/4	3/4

### BEARING SCHEDULE

#### NORTHBOUND LANE

SPAN	GIRDER	BEARING TYPE		SOLE R. DIM. "A"	SOLE R. THICKNESS	
		EXP.	FIXED		EXP.	FIXED
1	1	I	I	1'-2"	3/4	3/4
	2	I	I	1'-7"	3/4	3/4
	3	I	I	1'-7"	3/4	3/4
	4	I	I	1'-2"	3/4	3/4
2	1	III	III	1'-11"	7/8	3/4
	2	III	III	1'-11"	7/8	3/4
	3	III	III	1'-11"	7/8	3/4
	4	III	III	1'-11"	7/8	3/4
3	1	III	III	2'-6"	3/4	3/4
	2	III	III	2'-4"	3/4	3/4
	3	III	III	2'-4"	3/4	3/4
	4	III	III	2'-6"	3/4	3/4
4	1	II	II	2'-8"	3/4	3/4
	2	II	II	2'-2"	1	3/4
	3	II	II	2'-2"	1	3/4
	4	II	II	2'-8"	3/4	3/4
5	1	II	II	2'-8"	3/4	7/8
	2	II	II	2'-2"	3/4	7/8
	3	II	II	2'-2"	3/4	7/8
	4	II	II	2'-8"	3/4	7/8
6	1	II	II	2'-8"	3/4	3/4
	2	II	II	2'-2"	3/4	1
	3	II	II	2'-2"	3/4	1
	4	II	II	2'-8"	3/4	3/4
7	1	II	I	1'-8"	3/4	1
	2	I	I	2'-0"	3/4	1
	3	I	I	2'-0"	3/4	1
	4	II	I	1'-8"	3/4	1
8	1	I	I	2'-1"	3/4	1
	2	I	I	2'-0"	3/4	1
	3	I	I	2'-0"	3/4	1
	4	I	I	2'-1"	3/4	1
9	1	I	I	2'-1"	3/4	1
	2	I	I	2'-0"	3/4	1 1/8
	3	I	I	2'-0"	3/4	1 1/8
	4	I	I	2'-1"	3/4	1 1/8
10	1	I	I	2'-1"	3/4	1 1/8
	2	I	I	2'-2"	3/4	1 1/8
	3	I	I	2'-2"	3/4	1 1/8
	4	I	I	2'-2"	3/4	1 1/8
11	1	I	I	2'-1"	3/4	1 1/4
	2	I	I	2'-0"	3/4	1 1/4
	3	I	I	2'-0"	3/4	1 1/4
	4	I	I	2'-1"	3/4	1 1/4
12	1	I	I	2'-1"	3/4	1 1/4
	2	I	I	2'-0"	3/4	1 1/4
	3	I	I	2'-0"	3/4	1 1/4
	4	I	I	2'-1"	3/4	1 1/4
13	1	I	I	2'-1"	3/4	1 1/4
	2	I	I	2'-0"	3/4	1 1/4
	3	I	I	2'-0"	3/4	1 1/4
	4	I	I	2'-1"	3/4	1 1/4
14	1	I	I	2'-1"	3/4	1 1/4
	2	I	I	2'-0"	3/4	1 1/4
	3	I	I	2'-0"	3/4	1 1/4
	4	I	I	2'-1"	3/4	1 1/4
15	1	I	I	2'-1"	3/4	3/4
	2	I	I	2'-0"	3/4	3/4
	3	I	I	2'-0"	3/4	3/4
	4	I	I	2'-1"	3/4	3/4

PROJECT ENGINEER R. PARKER  
IN CHARGE OF J. R. SHERMAN  
DESIGNED BY  
DESIGN CHECKED BY  
DETAILED BY J. DURANT  
DETAIL CHECKED BY M. G. J. JONES

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

BEARINGS



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-680-3(28) 1-481-2(116)	222	309

**INTERSTATE ROUTE CONNECTION 570**  
BUTTERNUT INTERCHANGES (PHASE 2)  
ONE ADA COUNTY

SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PIER 2 NORTHBOUND											
Note: For Pier No.1 see Sheet No.47											
1	5	19	42'-6"	Str							Longitudinal top & bottom footing.
2	5	29	11'-6"	Str							Transverse top footing.
3	7	80	11'-6"	Str							Transverse bottom footing.
4	8	90	4'-6"	Str							Vertical footings to plinth.
5	5	72	2'-10"	Str							Vertical footings to plinth.
6	8	90	25'-3"	Str							Vertical plinth to cap beam.
7	5	72	10'-0"	Str							Vertical plinth.
8	5	20	35'-0"	Str							Longitudinal in plinth.
9	4	36	12'-1"	I	11'-6"	3'-8"	4 1/2"				Hoops in columns.
10	11	7	9'-2"	Str							Longitudinal top of beam.
11	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"			Longitudinal top of beam.
12	11	2	45'-6"	XI	34'-9"	1'-8"	3'-8 3/4"	2'-5"			Longitudinal top of beam.
13	4	4	9'-2"	Str							Longitudinal top of beam.
14	11	8	8'-1"	Str							Longitudinal bottom of beam.
15	11	2	36'-1"	Str							Longitudinal bottom of beam.
16	11	2	39'-9"	Str							Longitudinal bottom of beam.
17	5	42	3'-8"	III	3'-1"	7"	5"	5"			Vertical dowel beam to pedestal.
18	6	6	16'-4"	IX	4'-2"	3'-8"	6 3/4"	6 1/2"			Hoops in pedestals (interior).
19	6	6	17'-6"	VI	3'-8"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"	Hoops in pedestals (exterior).
20	5	8	36'-1"	Str							Longitudinal in sides of beam.
21	5	84	16'-3"	IX	3'-8"	4'-2"	5 3/4"	5 1/2"			Vertical stirrups in beams.
22	5	14	11'-11"	XIII	3'-1"	3'-1"	5'-9"	1'-10"			Beam end hoop.
23	6	336	7'-3"	Str							Pile reinforcement.
24	5	7	3'-8"	Str							Transverse top of beam.
25	8	8	36'-1"	Str							Longitudinal top crashwall.
26	5	36	3'-8"	Str							Transverse top crashwall.

PIER 2 SOUTHBOUND											
1	5	19	42'-6"	Str							Longitudinal top & bottom footing.
2	5	29	11'-6"	Str							Transverse top footing.
3	7	80	11'-6"	Str							Transverse bottom footing.
4	8	90	4'-6"	Str							Vertical footings to plinth.
5	5	72	2'-10"	Str							Vertical footings to plinth.
6	8	90	25'-3"	Str							Vertical plinth to cap beam.
7	5	72	10'-0"	Str							Vertical plinth.
8	5	20	35'-0"	Str							Longitudinal in plinth.
9	4	36	12'-1"	I	11'-6"	3'-8"	4 1/2"				Hoops in columns.
10	11	7	9'-2"	Str							Longitudinal top of beam.
11	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"			Longitudinal top of beam.
12	11	2	45'-6"	XI	34'-9"	1'-8"	3'-8 3/4"	2'-5"			Longitudinal top of beam.
13	4	4	9'-2"	Str							Longitudinal top of beam.
14	11	8	8'-1"	Str							Longitudinal bottom of beam.
15	11	2	36'-1"	Str							Longitudinal bottom of beam.
16	11	2	39'-9"	Str							Longitudinal bottom of beam.
17	5	42	3'-7"	III	3'-0"	7"	5"	5"			Vertical dowel beam to pedestal.
18	6	6	16'-4"	IX	4'-2"	3'-8"	6 3/4"	6 1/2"			Hoops in pedestals (interior).
19	6	6	17'-6"	VI	3'-8"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"	Hoops in pedestals (exterior).
20	5	8	36'-1"	Str							Longitudinal in sides of beam.
21	5	84	16'-3"	IX	3'-8"	4'-2"	5 3/4"	5 1/2"			Vertical stirrups in beams.
22	5	14	11'-11"	XIII	3'-1"	3'-1"	5'-9"	1'-10"			Beam end hoop.
23	6	336	7'-3"	Str							Pile reinforcement.
24	5	7	3'-8"	Str							Transverse top of beam.
25	8	8	36'-1"	Str							Longitudinal top crashwall.
26	5	36	3'-8"	Str							Transverse top crashwall.

PIER 3 NORTHBOUND											
1	5	19	42'-6"	Str							Longitudinal top & bottom footing.
2	5	29	11'-6"	Str							Transverse top footing.
3	7	80	11'-6"	Str							Transverse bottom footing.
4	8	90	4'-6"	Str							Vertical footings to plinth.
5	5	72	2'-10"	Str							Vertical footings to plinth.
6	8	90	24'-3"	Str							Vertical plinth to cap beam.
7	5	72	8'-1"	Str							Vertical plinth.
8	5	16	35'-0"	Str							Longitudinal in plinth.
9	4	39	12'-1"	I	11'-6"	3'-8"	4 1/2"				Hoops in columns.
10	11	7	9'-2"	Str							Longitudinal top of beam.
11	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"			Longitudinal top of beam.
12	11	2	45'-6"	XI	34'-9"	1'-8"	3'-8 3/4"	2'-5"			Longitudinal top of beam.
13	4	4	9'-2"	Str							Longitudinal top of beam.
14	11	8	8'-1"	Str							Longitudinal bottom of beam.
15	11	2	36'-1"	Str							Longitudinal bottom of beam.
16	11	2	39'-9"	Str							Longitudinal bottom of beam.
17	5	42	3'-7"	III	3'-0"	7"	5"	5"			Vertical dowel beam to pedestal.
18	6	6	16'-4"	IX	4'-2"	3'-8"	6 3/4"	6 1/2"			Hoops in pedestals (interior).
19	6	6	17'-6"	VI	3'-8"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"	Hoops in pedestals (exterior).
20	5	8	36'-1"	Str							Longitudinal in sides of beam.
21	5	84	16'-3"	IX	3'-8"	4'-2"	5 3/4"	5 1/2"			Vertical stirrups in beams.
22	5	14	11'-11"	XIII	3'-1"	3'-1"	5'-9"	1'-10"			Beam end hoop.
23	6	336	7'-3"	Str							Pile reinforcement.
24	5	7	3'-8"	Str							Transverse top of beam.
25	8	8	36'-1"	Str							Longitudinal top crashwall.
26	5	36	3'-8"	Str							Transverse top crashwall.

DESIGNED BY	R. Paizer
DESIGNED BY	F. Eckel
DETAILED BY	J. Durceat
TRACED BY	
TRACING CHECKED BY	J.F. Darcy

PIER 3 NORTHBOUND (CONTD)												
MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PBL11	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"				Longitudinal top of beam.
PBL12	11	2	45'-6"	XI	34'-9"	1'-8"	3'-8 3/4"	2'-5"				Longitudinal top of beam.
PBL13	4	4	9'-2"	Str								Longitudinal top of beam.
PBL14	11	8	8'-1"	Str								Longitudinal bottom of beam.
PBL15	11	2	36'-1"	Str								Longitudinal bottom of beam.
PBL16	11	2	39'-9"	Str								Longitudinal bottom of beam.
PBV17	5	42	3'-9"	III	3'-2"	7"	5"	5"				Vertical dowel beam to pedestal.
PPH18	6	6	16'-4"	IX	4'-2"	3'-8"	6 3/4"	6 1/2"				Hoops in pedestals (interior).
PPH19	6	6	17'-6"	VI	3'-8"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"		Hoops in pedestals (exterior).
PBL20	5	8	36'-1"	Str								Longitudinal in sides of beam.
PBS21	5	84	16'-3"	IX	3'-8"	4'-2"	5 3/4"	5 1/2"				Vertical stirrups in beams.
PBL22	5	14	11'-11"	XII	3'-1"	3'-1"	5'-9"	1'-10"				Beam end hoop.
FFV23	6	336	7'-3"	Str								Pile reinforcement
PBT24	5	7	3'-8"	Str								Transverse top of beam.
PSL25	8	8	36'-1"	Str								Longitudinal top crashwall.
PST26	5	36	3'-8"	Str								Transverse top crashwall.

PIER 3 SOUTHBOUND												
PFL1	5	19	42'-6"	Str								Longitudinal top & bottom footing.
PFT2	5	29	11'-6"	Str								Transverse top footing.
PFT3	7	80	11'-6"	Str								Transverse bottom footing.
PFV4	8	90	4'-6"	Str								Vertical footings to plinth.
PFV5	5	72	2'-10"	Str								Vertical footings to plinth.
PCV6	8	90	24'-3"	Str								Vertical plinth to cap beam.
PSV7	5	72	8'-1"	Str								Vertical plinth.
PSL8	5	16	35'-0"	Str								Longitudinal in plinth.
PCL9	4	39	12'-1"	I	11'-6"	3'-8"	4 1/2"					Hoops in columns.
PBL10	11	7	9'-2"	Str								Longitudinal top of beam.
PBL11	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"				Longitudinal top of beam.
PBL12	11	2	45'-6"	XI	34'-9"	1'-8"	3'-8 3/4"	2'-5"				Longitudinal top of beam.
PBL13	4	4	9'-2"	Str								Longitudinal top of beam.
PBL14	11	8	8'-1"	Str								Longitudinal bottom of beam.
PBL15	11	2	36'-1"	Str								Longitudinal bottom of beam.
PBL16	11	2	39'-9"	Str								Longitudinal bottom of beam.
PBV17	5	42	3'-8"	III	3'-1"	7"	5"	5"				Vertical dowel beam to pedestal.
PPH18	6	6	16'-4"	IX	4'-2"	3'-8"	6 3/4"	6 1/2"				Hoops in pedestals (interior).
PPH19	6	6	17'-6"	VI	3'-8"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"		Hoops in pedestals (exterior).
PBL20	5	8	36'-1"	Str								Longitudinal in sides of beam.
PBS21	5	84	16'-3"	IX	3'-8"	4'-2"	5 3/4"	5 1/2"				Vertical stirrups in beams.
PBL22	5	14	11'-11"	XIII	3'-1"	3'-1"	5'-9"	1'-10"				Beam end hoop.
FFV23	6	336	7'-3"	Str								Pile reinforcement.
PBT24	5	7	3'-8"	Str								Transverse top of beam.
PSL25	8	8	36'-1"	Str								Longitudinal top crashwall.
PST26	5	36	3'-8"	Str								Transverse top crashwall.

PIER 4 NORTHBOUND												
PFL1	5	19	42'-6"	Str								Longitudinal top & bottom footing.
PFT2	5	29	11'-6"	Str								Transverse top footing.
PFT3	7	80	11'-6"	Str								Transverse bottom footing.
PFV4	8	90	4'-6"	Str								Vertical footings to plinth.
PFV5	5	72	2'-10"	Str								Vertical footings to plinth.
PCV6	8	90	25'-0"	Str								Vertical plinth to cap beam.
PSV7	5	72	8'-3"	Str								Vertical plinth.
PSL8	5	18	35'-0"	Str								Longitudinal top of beam.
PCL9	4	39	12'-1"	I	11'-6 $\frac{3}{8}$ "	3'-8"	4 $\frac{1}{2}$ "					Hoops in columns.
PBL10	11	7	9'-2"	Str								Longitudinal top of beam.
PBL11	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 $\frac{3}{4}$ "	2'-5"				Longitudinal top of beam.
PBL12	11	2	45'-6"	XI	34'-9"	1'-8"	3'-8 $\frac{3}{4}$ "	2'-5"				Longitudinal top of beam.
PBL13	4	4	9'-2"	Str								Longitudinal top of beam.
PBL14	11	8	8'-1"	Str								Longitudinal bottom of beam.
PBL15	11	2	36'-1"	Str								Longitudinal bottom of beam.
PBL16	11	2	39'-9"	Str								Longitudinal bottom of beam.
PBV17	5	42	3'-7"	III	3'-0"	7"	5"	5"				Vertical dowel beam to pedestal.
PDH18	6	6	16'-4"	IX	4'-2"	3'-8"	6 $\frac{3}{4}$ "	6 $\frac{1}{2}$ "				Hoops in pedestals (interior).
PDH19	6	6	17'-6"	IX	3'-6"	5'-9"	1'-10"	3'-8"	6 $\frac{3}{4}$ "	6 $\frac{1}{2}$ "		Hoops in pedestals (exterior).
PBL20	5	8	36'-1"	Str								Longitudinal in sides of beam.
PBS21	5	84	16'-3"	IX	3'-8"	4'-2"	3 $\frac{3}{4}$ "	5 $\frac{1}{2}$ "	*			Vertical stirrups in beams.
PBL22	5	14	11'-11"	XIII	3'-1"	3'-1"	5'-9"	1'-10"				Beam end hoop.
FFV23	6	336	7'-3"	Str								Pile reinforcement.
PBT24	5	7	3'-8"	Str								Transverse top of beam.
PSL25	5	8	36'-1"	Str								Longitudinal top crashwall.
PST26	5	36	5'-8"	Str								Transverse top crashwall.



MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PIER 4 SOUTHBOUND												
1	5	19	42'-6"	Str								Longitudinal top & bottom footing.
2	5	29	11'-6"	Str								Transverse top footing.
3	7	80	11'-6"	Str								Transverse bottom footing.
4	8	90	4'-6"	Str								Vertical footing to plinth.
5	5	72	2'-10"	Str								Vertical footing to plinth.
6	8	90	25'-0"	Str								Vertical plinth to cap beam.
7	5	72	8'-3"	Str								Vertical plinth.
8	5	18	35'-0"	Str								Longitudinal in plinth.
9	4	59	12'-1"	II	11'-6"	3'-8"	4 1/2"					Hoops in columns
10	11	7	9'-2"	Str								Longitudinal top of beam.
11	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"				Longitudinal top of beam.
12	11	2	45'-6"	XI	34'-0"	1'-8"	3'-8 3/4"	2'-5"				Longitudinal top of beam.
13	4	4	9'-2"	Str								Longitudinal top of beam.
14	11	8	8'-1"	Str								Longitudinal bottom of beam.
15	11	2	36'-1"	Str								Longitudinal bottom of beam.
16	11	2	39'-9"	Str								Longitudinal bottom of beam.
17	5	42	3'-7"	III	3'-0"	7"	5"	5"				Vertical dowel beam to pedestal.
18	6	6	16'-4"	IX	4'-2"	3'-8"	6 3/4"	6 1/2"				Hoops in pedestals (interior).
19	6	6	17'-6"	IX	3'-8"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"		Hoops in pedestals (exterior).
20	5	9	36'-1"	Str								Longitudinal in sides of beam.
21	5	84	16'-3"	IX	3'-8"	4'-2"	5 3/4"	5 1/2"				Vertical stirrups in beams.
22	5	14	11'-11"	XIII	3'-1"	3'-1"	5'-9"	1'-10"				Beam end hoop.
23	6	336	7'-3"	Str								Pile reinforcement.
24	5	7	3'-8"	Str								Transverse top beam.
25	8	8	36'-1"	Str								Longitudinal top crashwall.
26	5	36	3'-8"	Str								Transverse top crashwall.

## PIER 5 NORTHBOUND (SOUTHBOUND IDENTICAL)

1	6	234	7'-3"	Str								Pile reinforcement
2	10	17	43'-6"	Str								Longitudinal Bottom Footing
3	11	16	43'-6"	Str								Longitudinal Top Footing
4	5	95	8'-6"	Str								Transverse Top & Bottom Footing
5	7	90	4'-0"	Str								Dowels in Columns
6	7	90	24'-8"	Str								Vertical Columns
7	4	63	12'-1"	I	11'-6"	3'-8"	4 1/2"					Stirrups in Columns
8	10	2	36'-1"	Str								Longitudinal Bottom Cap Beam
9	10	2	39'-9"	Str								" " " "
10	10	8	8'-6"	Str								" " " "
11	5	10	36'-1"	Str								" Sides " "
12	11	2	45'-6"	XI	34'-0"	1'-8"	3'-8 3/4"	2'-5"				" Top " "
13	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"				" " " "
14	11	6	8'-0"	Str								" " " "
15	5	14	13'-1"	XIII	3'-8"	3'-8"	5'-9"	1'-10"				Horizontal Ends " "
16	5	76	13'-10"	IX	4'-2"	2'-6"	5 3/4"	5 1/2"				Stirrups Cap Beam
17	5	42	3'-6"	III	2'-11"	7"	5"	5"				Vertical Pedestals
18	6	6	16'-0"	IX	3'-8"	4'-0"	6 3/4"	6 1/2"				Horizontal Interior Pedestals
19	6	6	17'-5"	IX	3'-7 1/4"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"		" Fascia "

## PIER 6 NORTHBOUND

1	6	234	7'-3"	Str								Pile reinforcement
2	10	17	43'-6"	Str								Longitudinal Bottom Footing
3	11	16	43'-6"	Str								" Top "
4	5	95	8'-6"	Str								Transverse Top & Bottom Footing
5	7	90	4'-0"	Str								Dowels in Columns
6	7	90	24'-8"	Str								Vertical Columns
7	4	63	12'-1"	I	11'-6"	3'-8"	4 1/2"					Stirrups in Columns
8	10	2	36'-1"	Str								Longitudinal Bottom Cap Beam
9	10	2	39'-9"	Str								" " " "
10	10	8	8'-6"	Str								" " " "
11	5	10	36'-1"	Str								" Sides " "
12	11	2	45'-6"	XI	34'-0"	1'-8"	3'-8 3/4"	2'-5"				" Top " "

## PIER 6 NORTHBOUND CONT'D

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PBL13	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"				Longitudinal Top Cap Beam
PBL14	11	6	8'-0"	Str								" " " "
PBH15	5	14	13'-1"	XIII	3'-8"	3'-8"	5'-9"	1'-10"				Horizontal Ends " "
PBS16	5	76	13'-10"	IX	4'-2"	2'-6"	5 3/4"	5 1/2"				Stirrups Cap Beam
PBV17	5	42	3'-6"	III	2'-11"	7"	5"	5"				Vertical Pedestals
PPH18	6	6	16'-0"	IX	3'-8"	4'-0"	6 3/4"	6 1/2"				Horizontal Interior Pedestals
PPH19	6	6	17'-5"	IX	3'-7 1/4"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"		" Fascia "

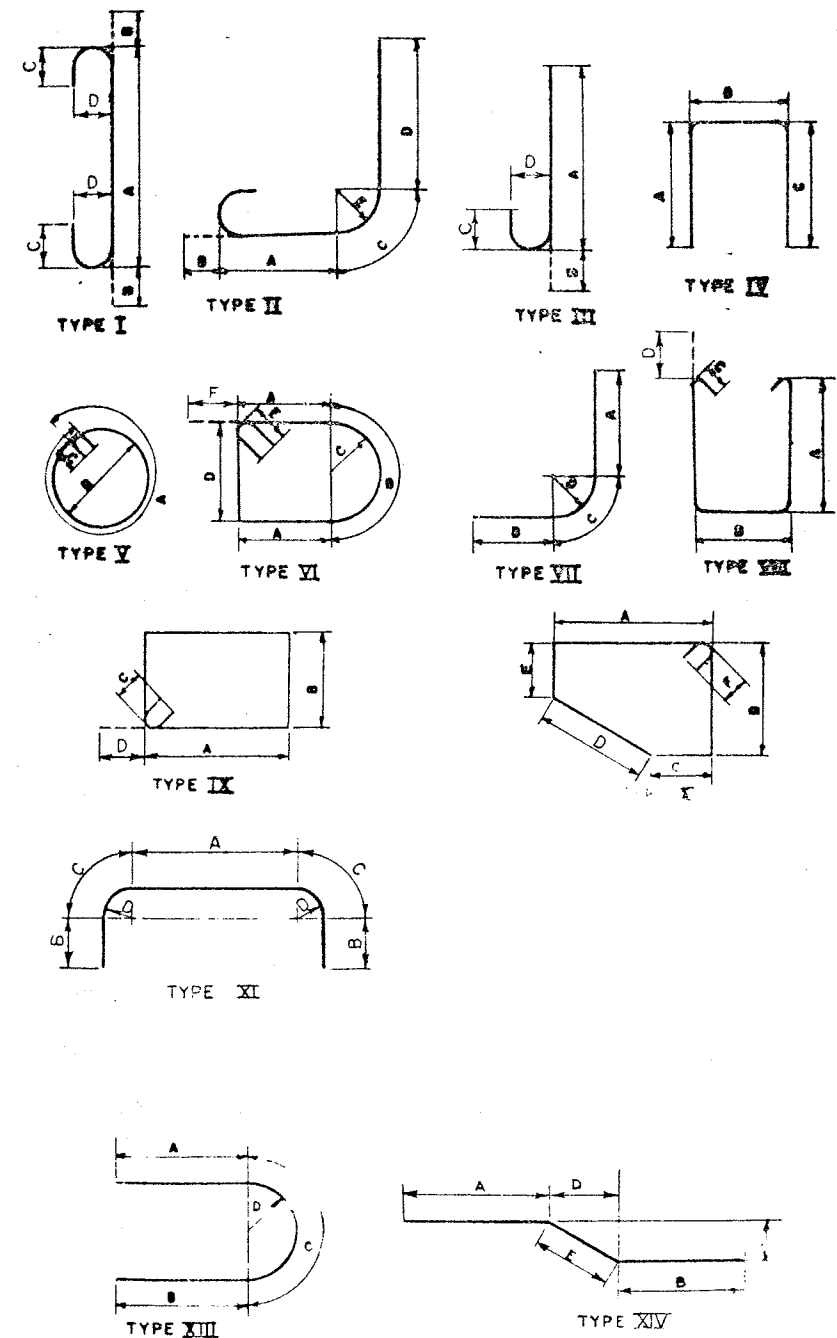
## PIER 6 SOUTHBOUND

FFV1	6	234	7'-3"	Str								Pile reinforcement
PFL2	10	17	43'-6"	Str								Longitudinal Bottom Footing
PFL3	11	16	43'-6"	Str								" Top "
PFT4	5	95	8'-6"	Str								Transverse Top & Bottom Footing
PFV5	7	90	4'-0"	Str								Dowels in Columns
PCV6	7	90	25'-4"	Str								Vertical Columns
PCS7	4	66	12'-1"	I	11'-6"	3'-8"	4 1/2"					Stirrups in Column
PBL8	10	2	36'-1"	Str								Longitudinal Bottom Cap Beam
PBL9	10	2	39'-9"	Str								" " " "
PBL10	10	8	8'-6"	Str								" " " "
PBL11	5	10	36'-1"	Str								" Sides " "
PBL12	11	2	45'-6"	XI	34'-0"	1'-8"	3'-8 3/4"	2'-5"				" Top " "
PBL13	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"				" " " "
PBL14	11	6	8'-0"	Str								" " " "
PBH15	5	14	13'-1"	XIII	3'-8"	3'-8"	5'-9"	1'-10"				Horizontal Ends Cap Beam
PBS16	5	76	13'-10"	IX	4'-2"	2'-6"	5 3/4"	5 1/2"				Stirrups Cap Beam
PBV17	5	42	3'-6"	III	2'-11"	7"	5"	5"				Vertical Pedestals
PPH18	6	6	16'-0"	IX	3'-8"	4'-0"	6 3/4"	6 1/2"				Horizontal Interior Pedestals
PPH19	6	6	17'-5"	IX	3'-7 1/4"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"		Horizontal Fascia Pedestals

FED. RD. DIST. NO.	STATE	PROJECT NO.	DATE	BY
1	N.Y.	1-481-2010	2-23	309

INTERSTATE ROUTE 481 OVER DEWITT YARDS  
CURRENT PROPOSED (PHASE 2)  
ORIGINAL CONTRACT

## BAR TYPES



ALL DIMENSIONS ARE OUT TO OUT OF BAR

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

BAR LIST #2

DRAWING NO. 45 OF 50

IN CHARGE OF R. Parker  
DESIGNED BY F. Eckel  
DETAILED BY J. Duncanson  
TRACING CHECKED BY J.F. Dancy



[illegible]

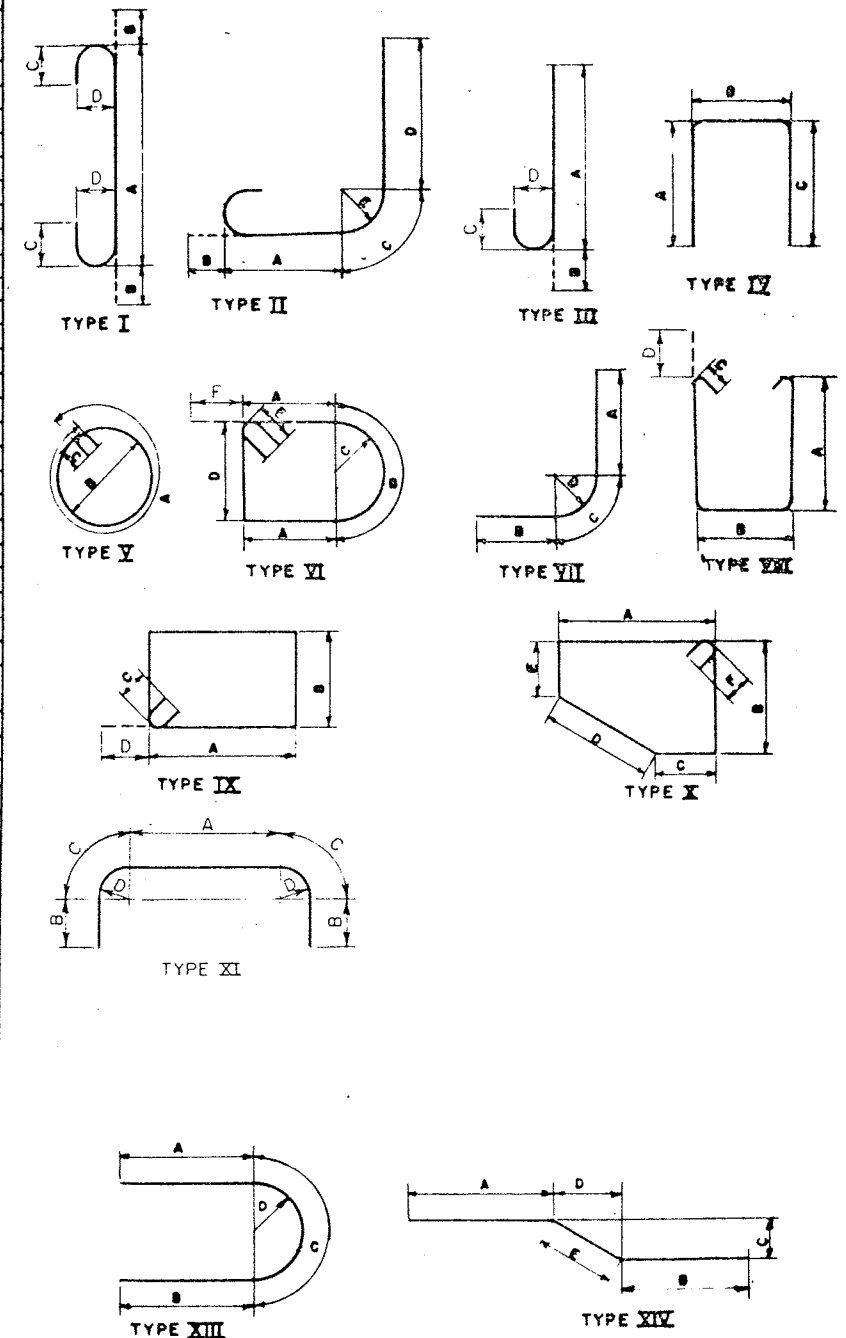
PIER 7 SOUTH-BEND										
1	7	17	41'-6"	Str						Longitudinal bottom of footing.
2	8	15	41'-6"	Str						Longitudinal top of footing.
3	5	29	8'-6"	Str						Transverse top of footing.
4	5	56	8'-6"	Str						Transverse bottom of footing.
5	7	72	4'-0"	Str						Dowels footing to column.
6	7	72	26'-5"	Str						Vertical in columns.
7	4	78	11'-1"	II	10'-1 1/2"	3'-2"	0'-5 3/4"			Hoops in columns.
8	10	2	38'-4"	Str						Longitudinal in bottom of beam.
9	10	6	7'-4"	Str						Longitudinal in bottom of beam.
10	11	4	8'-8"	Str						Longitudinal in top of beam.
11	11	2	40'-0"	XI	30'-3"	1'-2"	3'-8 3/4"	2'-5"		Longitudinal in top of beam.
12	6	6	14'-5"	II	3'-8"	3'-2"	6 3/4"	6 1/2"		Hoops interior pedestals.
13	6	6	15'-2"	II	3'-1 3/4"	5'-0"	1'-7"	3'-2"	6 3/4"	Hoops exterior pedestals.
14	5	12	3'-4"	III	2'-9"	7"	5"	5"		Dowels pier beam to pedestals.
15	5	8	35'-7"	Str						Longitudinal sides of beam.
16	11	2	44'-0"	XI	34'-3"	1'-2"	3'-8 3/4"	2'-5"		Longitudinal in top of beam.
17	10	2	35'-7"	Str						Longitudinal in bottom of beam.
18	4	72	12'-2"	IX	3'-8"	2'-2"	4 1/2"	4 1/2"		Stirrups pier beam.
19	5	12	11'-2"	XII	3'-1"	3'-1"	5'-0"	1'-7"		Hoop end of pier beam.
20	6	156	7'-3"	Str						File reinforcement.

PIER 8 NORTHBOND											
1	7	17	41'-6"	Str						Longitudinal bottom of footing.	
2	8	15	41'-6"	Str						Longitudinal top of footing.	
3	5	29	8'-6"	Str						Transverse top of footing.	
4	5	56	8'-6"	Str						Transverse bottom of footing.	
5	7	72	4'-0"	Str						Dowels footing to column.	
6	7	72	26'-10"	Str						Vertical in columns.	
7	4	72	11'-1"	I	10'-1 1/2"	3'-2"	5 3/4"			Hoops in columns.	
8	10	2	38'-4"	Str						Longitudinal in bottom of beam.	
9	10	6	7'-4"	Str						Longitudinal in bottom of beam.	
10	11	4	8'-8"	Str						Longitudinal in top of beam.	
11	11	2	40'-0"	Str	30'-3"	1'-2"	3'-5 3/4"	2'-5"		Longitudinal in top of beam.	
12	6	6	14'-5"	II	3'-8"	3'-2"	6 3/4"	6 1/2"		Hoops interior pedestals.	
13	6	6	15'-2"	VI	3'-1 1/2"	5'-0"	1'-7"	3'-2"	6 3/4"	6 1/2"	Hoops exterior pedestals.
14	5	42	3'-4"	III	2'-9"	7"	5"	5"			Dowels pier beam to pedestals.
15	5	8	35'-7"	Str							Longitudinal sides of beam.
16	11	2	44'-0"	XI	34'-3"	1'-2"	3'-5 3/4"	2'-5"			Longitudinal in top of beam.
17	10	2	35'-7"	Str							Longitudinal in bottom of beam.
18	4	72	18'-2"	IX	3'-8"	2'-2"	4 1/2"	4 1/2"			Stirrups pier beam.

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	PIER    9     CRT-HOUL.D							
PFL1	7	17	4'-6"	Str				Longitudinal bottom of footing.
PFL2	8	15	4'-6"	Str				Longitudinal top of footing
PET3	5	29	8'-6"	Str				Transverse top of footing
PET4	5	36	8'-6"	Str				Transverse bottom of footing.
PEV5	7	72	4'-0"	Str				Dowels footing to column.
PCV6	7	72	25'-10"	Str				Vertical in columns.
POC7	4	69	11'-1"	I	10-1½'	3'-2"	0'-3½"	Hoops in columns.
PBL8	10	2	3B'-4"	Str				Longitudinal in bottom of beam
PBL9	10	6	7'-4"	Str				Longitudinal in bottom of beam.
PBL10	11	4	8'-8"	Str				Longitudinal in top of beam.
PBL11	11	2	40'-0"	XI	30'-3"	1'-2"	2'-8½"	2'-5"
PRH12	6	6	14'-5"	IX	3'-8"	3'-2"	6¾"	6½"
PPH13	6	6	15'-2"	VII	5'-¼"	5'-0"	1'-7"	3'-2"
PBY14	5	42	3'-4"	III	2'-9"	7"	5"	5"
PBL15	5	8	35'-7"	Str				Dowels pier beam to pedestals
								Longitudinal sides of beam.
PBL16	11	2	44'-0"	XI	34'-3"	1'-2"	3'-5¾"	2'-5"
								Longitudinal in top of beam.
PBL17	10	2	35'-7"	Str				Longitudinal in bottom of beam.
PBS18	4	72	12'-2"	IX	3'-8"	2'-2"	4½"	4½"
								Shrups pier beam.
PBH19	5	12	11'-2"	XIII	3'-1"	3'-1"	5'-0"	1'-7"
								Hoop end of pier beam.
FFV20	6	156	7'-3"	Str				Pile reinforcement.

## BAR TYPES



ALL DIMENSIONS ARE OUT TO OUT OF BARS

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DENITT YARDS

BAR LIST # 3

IN CHARGE OF R. Parker  
DESIGNED BY F. Eckel  
DETAILED BY J. Barrant  
TRACED BY  
TRACING CHECKED BY J. F. Darcy



PIER 9 SOUTHBOUND

[illegible]

## PIER 10 NORTH BOUND

[illegible]

PIER 0 SOUTHBOUND

7	9	32	4'-6"	Str						Longitudinal (top & bottom) footing.
T3	5	108	8'-6"	Str						Transverse (top & bottom) footing.
V4	7	72	4'-6"	Str						Dowels footing to column.
V5	7	72	24'-3"	Str						Vertical in columns.
56	2	56	11'-1"	I	10 1/2	3'-2"	5 3/4			Hoops in columns.
L7	10	2	38'-3"	Str						Longitudinal in bottom cap beam.
L8	10	6	7'-10"	Str						Longitudinal in bottom cap beam.
L9	10	2	35'-3"	Str						Longitudinal in bottom cap beam.
L10	11	4	8'-8"	Str						Longitudinal in top cap beam.
L11	11	2	33'-8"	XI	29 1/4	1'-2"	3 5/8	2'-5"		Longitudinal in top cap beam.
L12	11	2	43'-8"	XI	33 1/4	1'-2"	3 5/8	2'-5"		Longitudinal in top cap beam.
L13	5	8	35'-2"	Str						Longitudinal in sides cap beam.
H14	5	12	11'-2"	XIII	3'-1"	3'-1"	5'-0"	1'-7"		Horizontal ends of cap beam.
S15	5	56	12'-3"	IX	3'-8"	2'-0"	5 3/4	5 1/2		Stirrups in cap beam.
V16	5	42	3'-4"	XII	2'-3"	7"	5"	5"		Vertical in pedestals.
H17	6	6	13'-9"	IX	3'-4"	3'-2"	6 3/4	6 1/2		Horizontal interior pedestals.
H18	6	6	14'-11"	VI	3'-0"	3'-0"	1'-7"	3'-2"	6'4" 6'10"	Horizontal fascia pedestals.
V19	6	168	7'-3"	Str						Vertical in piles.

AS MADE	IN CHARGE OF	R. Parker
REVISION	DESIGNED BY	= Eckel
REVISION	DETAILED BY	J. DURRANT
REVISION	TRACED BY	
REVISION	TRACING CHECKED BY	J.F.D.

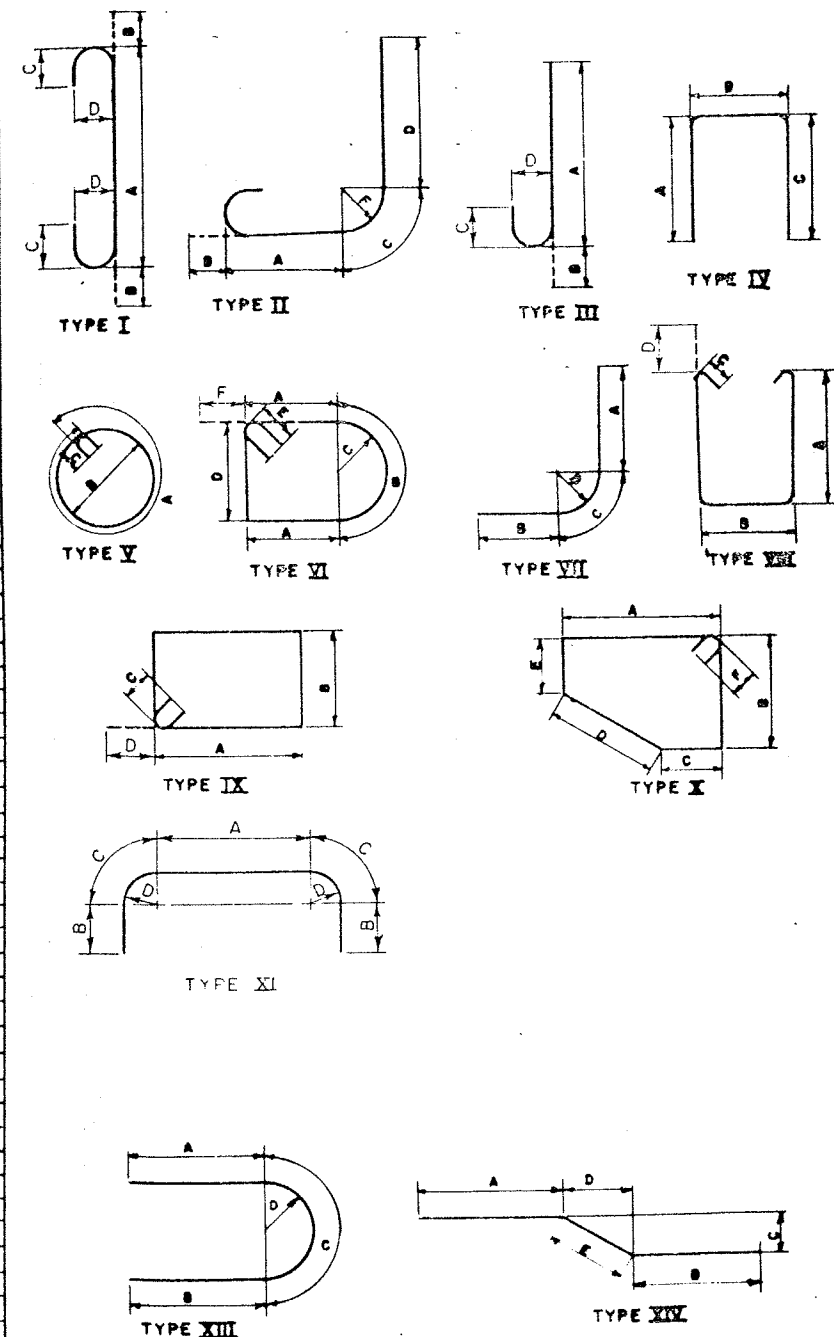
PIER 1 SOUTHBOUND (PIER 1 NORTHBOUND IDENTICAL)

[illegible]

FED. RD. REG. NO.	STATE	FEDERAL AID FMS SCT. NO.	BUSHT NO.	TOTAL REG. NO.
1	N.Y.	1-600-3085 1-481-2016	225	309

**INTERSTATE ROUTE CONNECTION 570**  
 BUTTERNUT INTERCHANGE (PHASE 2)  
 ORONDAGA COUNTY

## BAR TYPES



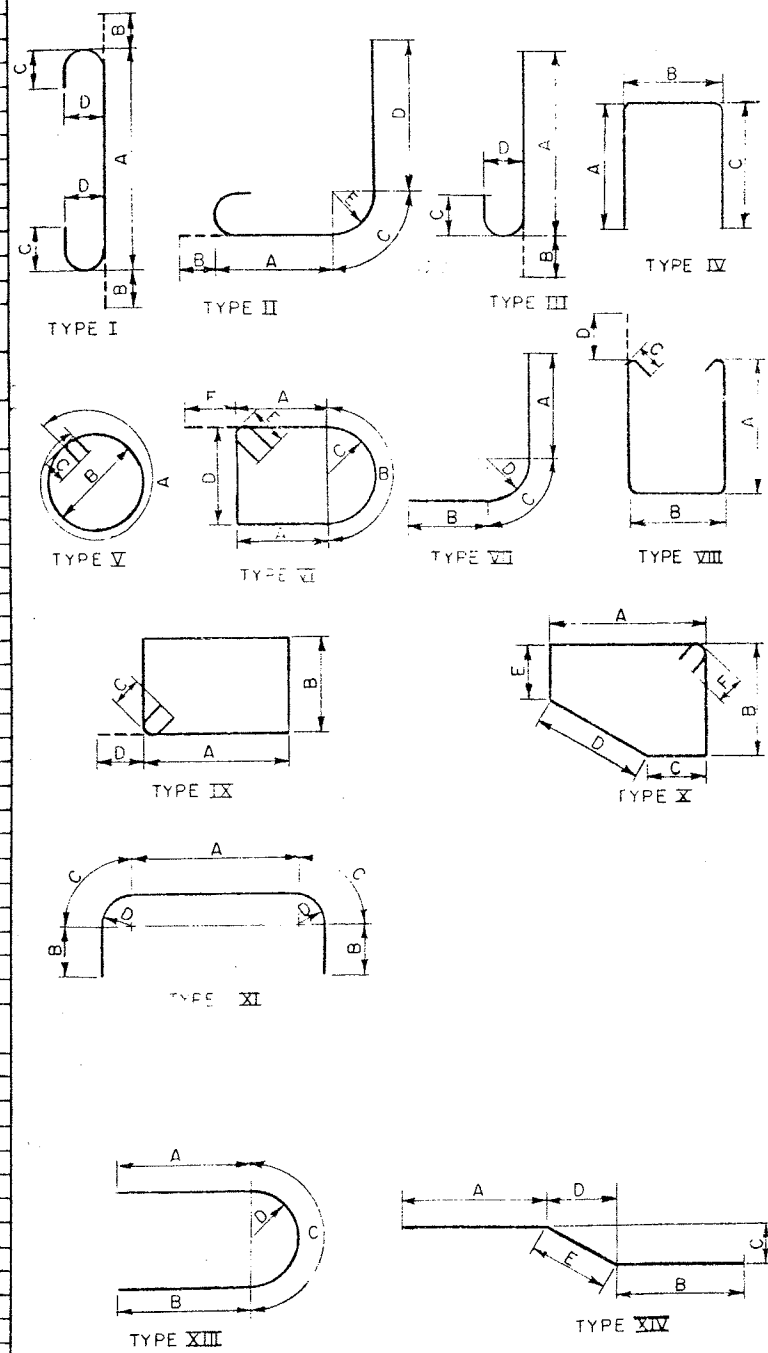
ALL DIMENSIONS ARE OUT TO OUT OF BARS

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER JEWITT YARDS

BAR LIST #4



BAR TYPES



MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PFL1	10	14	41'-6"	Str								Longitudinal in bottom of footing
PFL2	8	16	41'-6"	Str								Longitudinal in top of footing
PFT3	5	102	5'-6"	Str								Transverse top & bottom of footing
PFV4	7	72	4'-3"	Str								Dowels footing to column
PCV5	7	72	22'-6"	Str								Vertical in columns
PCS6	4	60	10'-11"	Str	10'-11"	3'-2"	0'-4 1/2"					Hoops in columns
PBS7	4	72	12'-2"	Str	3'-8"	2'-2"	4'-2"	4'-2"				Stirrups in cap beam
PBL8	10	2	37'-10"	Str								Longitudinal in bottom of beam
PBL9	10	6	7'-4"	Str								Longitudinal in bottom of beam
PBL10	11	4	7'-8"	Str								Longitudinal in top of beam
PBL11	11	2	39'-8"	Str	29'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PPH12	6	6	13'-9"	Str	3'-4"	3'-2"	6'-4"	6'-2"				Hoops in pedestals (interior)
PPH13	6	6	14'-11"	Str	3'-0"	5'-0"	1'-7"	3'-2"	6'-2"	6'-2"		Hoops in pedestals (exterior)
PBV14	5	42	3'-1"	Str	2'-6"	7"	5"	5"				Dowels pier beam to pedestals
PBL15	5	8	35'-3"	Str								Longitudinal in sides of beam
PBL16	11	2	43'-8"	Str	33'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PBL17	10	2	35'-3"	Str								Longitudinal in bottom of beam
PBL18	5	12	11'-2"	Str	3'-1"	3'-1"	5'-0"	1'-7"				Horizontal in ends of beam
FFV19	6	144	7'-3"	Str								Reinforcement in piles

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PFL1	10	14	41'-6"	Str								Longitudinal in bottom of footing
PFL2	8	16	41'-6"	Str								Longitudinal in top of footing
PFT3	5	102	5'-6"	Str								Transverse top & bottom of footing
PFV4	7	72	4'-3"	Str								Dowels footing to column
PCV5	7	72	22'-6"	Str								Vertical in columns
PCS6	4	60	10'-11"	Str	10'-11"	3'-2"	0'-4 1/2"					Hoops in columns
PBS7	4	72	12'-2"	Str	3'-8"	2'-2"	4'-2"	4'-2"				Stirrups in cap beam
PBL8	10	2	37'-10"	Str								Longitudinal in bottom of beam
PBL9	10	6	7'-4"	Str								Longitudinal in bottom of beam
PBL10	11	4	7'-8"	Str								Longitudinal in top of beam
PBL11	11	2	39'-8"	Str	29'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PPH12	6	6	13'-9"	Str	3'-4"	3'-2"	6'-4"	6'-2"				Hoops in pedestals (interior)
PPH13	6	6	14'-11"	Str	3'-0"	5'-0"	1'-7"	3'-2"	6'-2"	6'-2"		Hoops in pedestals (exterior)
PBV14	5	42	3'-1"	Str	2'-6"	7"	5"	5"				Dowels pier beam to pedestals
PBL15	5	8	35'-3"	Str								Longitudinal in sides of beam
PBL16	11	2	43'-8"	Str	33'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PBL17	10	2	35'-3"	Str								Longitudinal in bottom of beam
PBL18	5	12	11'-2"	Str	3'-1"	3'-1"	5'-0"	1'-7"				Horizontal in ends of beam
FFV19	6	144	7'-3"	Str								Reinforcement in piles

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PFL1	10	14	41'-6"	Str								Longitudinal in bottom of footing
PFL2	8	16	41'-6"	Str								Longitudinal in top of footing
PFT3	5	102	5'-6"	Str								Transverse top & bottom of footing
PFV4	7	72	4'-3"	Str								Dowels footing to column
PCV5	7	72	19'-2"	Str								Vertical in columns
PCS6	4	51	10'-11"	Str	10'-11"	3'-2"	0'-4 1/2"					Hoops in columns
PBS7	4	72	12'-2"	Str	3'-8"	2'-2"	4'-2"	4'-2"				Stirrups in cap beam
PBL8	10	2	37'-10"	Str								Longitudinal in bottom of beam
PBL9	10	6	7'-4"	Str								Longitudinal in bottom of beam
PBL10	11	4	7'-8"	Str								Longitudinal in top of beam
PBL11	11	2	39'-8"	Str	29'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PPH12	6	6	13'-9"	Str	3'-4"	3'-2"	6'-4"	6'-2"				Hoops in pedestals (interior)
PPH13	6	6	14'-11"	Str	3'-0"	5'-0"	1'-7"	3'-2"	6'-2"	6'-2"		Hoops in pedestals (exterior)
PBV14	5	42	3'-1"	Str	2'-6"	7"	5"	5"				Dowels pier beam to pedestals
PBL15	5	8	35'-3"	Str								Longitudinal in sides of beam
PBL16	11	2	43'-8"	Str	33'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PBL17	10	2	35'-3"	Str								Longitudinal in bottom of beam
PBL18	5	12	11'-2"	Str	3'-1"	3'-1"	5'-0"	1'-7"				Horizontal in ends of beam
FFV19	6	144	7'-3"	Str								Reinforcement in piles

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PFL1	10	14	41'-6"	Str								Longitudinal in bottom of footing
PFL2	8	16	41'-6"	Str								Longitudinal in top of footing
PFT3	5	102	5'-6"	Str								Transverse top & bottom of footing
PFV4	7	72	4'-3"	Str								Dowels footing to column
PCV5	7	72	19'-2"	Str								Vertical in columns
PCS6	4	51	10'-11"	Str	10'-11"	3'-2"	0'-4 1/2"					Hoops in columns
PBS7	4	72	12'-2"	Str	3'-8"	2'-2"	4'-2"	4'-2"				Stirrups in cap beam
PBL8	10	2	37'-10"	Str								Longitudinal in bottom of beam
PBL9	10	6	7'-4"	Str								Longitudinal in bottom of beam
PBL10	11	4	7'-8"	Str								Longitudinal in top of beam
PBL11	11	2	39'-8"	Str	29'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PPH12	6	6	13'-9"	Str	3'-4"	3'-2"	6'-4"	6'-2"				Hoops in pedestals (interior)
PPH13	6	6	14'-11"	Str	3'-0"	5'-0"	1'-7"	3'-2"	6'-2"	6'-2"		Hoops in pedestals (exterior)
PBV14	5	42	3'-1"	Str	2'-6"	7"	5"	5"				Dowels pier beam to pedestals
PBL15	5	8	35'-3"	Str								Longitudinal in sides of beam
PBL16	11	2	43'-8"	Str	33'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PBL17	10	2	35'-3"	Str								Longitudinal in bottom of beam
PBL18	5	12	11'-2"	Str	3'-1"	3'-1"	5'-0"	1'-7"				Horizontal in ends of beam
FFV19	6	144	7'-3"	Str								Reinforcement in piles

DESIGNED BY	DESIGN CHECKED BY	DETAILED BY	DETAIL CHECKED BY
J.F.D.	J.F.D.	J.F.D.	J.F.D.

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PFL1	10	27	41'-6"	Str								Longitudinal in top & bottom of footing
PFT2	5	61	7'-0"	Str								Transverse in top & bottom of footing
PFV3	7	75	4'-6"	Str								Dowels footing to columns
PCV5	7	75	15'-0"	Str								Vertical in columns
PCS8	4	39	10'-11"	Str	10'-11"	3'-2"	0'-4 1/2"					Hoops in columns
PBL9	10	6	6'-10"	Str								Longitudinal in bottom of beam
PBL10	11	4	7'-8"	Str								Longitudinal in top of beam
PBL11	11	2	39'-8"	Str	29'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PBL12	11	2	43'-8"	Str	33'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PBL13	5	8	35'-2 1/2"	Str								Longitudinal in beam sides
PBL14	10	2	35'-2 1/2"	Str								Longitudinal in bottom of beam
PBL15	10	2	38'-2 1/2"	Str								Longitudinal in bottom of beam
PBL16	5	12	11'-2"	Str	3'-1"	3'-1"	5'-0"	1'-7"				Beam end hoop
PBV17	5	42	3'-1"	Str	2'-6"	7"	5"	5"				Vertical dowel beam to pedestal
PPH18	6	6	13'-9"	Str	3'-4"	3'-2"	6'-4"	6'-2"				Hoops in pedestals (interior)
PPH19	6	6	14'-11"	Str	3'-0"	5'-0"	1'-7"	3'-2"	6'-2"	6'-2"		Hoops in pedestals (exterior)
FFV20	6	144	7'-3"	Str								Pile reinforcement
PBS21	4	66	12'-2"	Str	3'-8"	2'-2"	0'-4 1/2"	4'-2"				Stirrups in cap beam

PIER 13 S.B. IDENTICAL TO PIER 12 N.B.

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PFL1	10	27	41'-6"	Str								Longitudinal in top & bottom of footing
PFT2	5	61	7'-0"	Str								Transverse top & bottom of footing
PFV3	7	74	4'-6"	Str								Dowels footing to columns
PFV4	10	56	7'-2"	Str	5'-7"	1'-7 1/2"	1'-0 3/4"	1'-3 1/4"				Dowels footing to columns
PCV6	10	56	10'-11"	Str								Vertical in columns (exterior)
PCV7	7	24	11'-4"	Str								Vertical in columns (interior)
PCS8	4	27	10'-11"	Str	10'-11"	3'-2"	0'-4 1/2"					Hoops in columns
PBL9	10	6	6'-10"	Str								Longitudinal in bottom of beam
PBL10	11	4	7'-8"	Str								Longitudinal in top of beam
PBL11	11	2	39'-8"	Str	29'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PBL12	11	2	43'-8"	Str	33'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PBL13	5	8	35'-2 1/2"	Str								Longitudinal in beam sides
PBL14	10	2	35'-2 1/2"	Str								Longitudinal in bottom of beam
PBL15	10	2	38'-2 1/2"	Str								Longitudinal in bottom of beam
PBL16	5	12	11'-2"	Str	3'-1"	3'-1"	5'-0"	1'-7"				Beam end hoop
PBV17	5	42	3'-1"	Str	2'-6"	7"	5"	5"				Vertical dowel beam to pedestal
PPH18	6	6	13'-9"	Str	3'-4"	3'-2"	6'-4"	6'-2"				Hoops in pedestals (interior)
PPH19	6	6	14'-11"	Str	3'-0"	5'-0"	1'-7"	3'-2"	6'-2"	6'-2"		Hoops in pedestals (exterior)
FFV20	6	144	7'-3"	Str								Pile reinforcement
PBS21	4	66	12'-2"	Str	3'-8"	2'-2"	0'-4 1/2"	4'-2"				Stirrups in cap beam

PIER 14 S.B. IDENTICAL TO PIER 13 N.B.

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PFL1	10	27	41'-6"	Str								Longitudinal in top & bottom of footing
PFT2	5	61	7'-0"	Str								Transverse in top & bottom of footing
PFV3	7	74	4'-6"	Str								Dowels footing to columns
PFV4	10	56	7'-2"	Str	5'-7"	1'-7 1/2"	1'-0 3/4"	1'-3 1/4"				Dowels footing to columns
PCV6	10	56	10'-11"	Str								Vertical in columns (exterior)
PCV7	7	24	11'-4"	Str								Vertical in columns (interior)
PCS8	4	27	10'-11"	Str	10'-11"	3'-2"	0'-4 1/2"					Hoops in columns
PBL9	10	6	6'-10"	Str								Longitud



## SOUTH ABUTMENT

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	I	LOCATION
AFL1	5	36	34'-4"	Str.										Longitudinal-Top & Bottom footing.
AFL2	5	28	23'-0"	Str.										Longitudinal-Top & Bottom footing.
AFL3	5	14	8'-6"	Str.										Longitudinal-Top & Bottom footing.
AFL4	5	14	9'-0"	Str.										Longitudinal-Top & Bottom footing.
AFT5	5	311	8'-6"	Str.										Transverse-Top & Bottom footing.
AFT6	7	76	8'-6"	Str.										Transverse-Bottom footing.
AWY7	5	17	3'-4"	Str.										Vertical-Wingwall.
AFV8	5	120	3'-0"	Str.										Dowels.
AWY9	7	36	12'-11"	Str.										Vertical-Wingwall.
AWY10	5	41	13'-0"	Str.										Vertical-Wingwall.
AWY11	7	36	13'-0"	Str.										Vertical-Wingwall.
ABY12	5	40	12'-0"	Str.										Backwall-Vertical.
ABY13	5	24	13'-7"	Str.										Backwall-Vertical.
ABY14	7	105	12'-0"	Str.										Backwall-Vertical.
ABW15	5	28	23'-0"	Str.										Wingwall-Horizontal.
ABW16	5	28	26'-0"	Str.	20'-0"	5'-4"	6"	6"	8 1/2"					Wingwall-Horizontal.
ABW17	5	28	3'-8"	Str.										Curtainwall-Horizontal.
ABW18	5	20	8'-0"	Str.										Wingwall-Horizontal.
ABW19	5	10	7'-8"	Str.										Wingwall-Horizontal.
ABW20	5	36	40'-6"	Str.										Backwall-Horizontal.
ABH21	5	28	22'-3"	Str.										Backwall-Horizontal.
ABH22	5	28	22'-11"	Str.										Backwall-Horizontal.
AFY23	7	243	4'-2"	Str.										Dowels.
ABY24	5	68	4'-3"	Str.	2'-3"	5 1/2"	2'-3"							Vertical-Header.
AHL26	5	4	33'-6"	Str.										Longitudinal-Header.
AHL27	5	2	22'-3"	Str.										Longitudinal-Header (Mall).
AHL28	5	2	22'-11"	Str.										Longitudinal-Header "
ABY29	7	66	13'-7"	Str.										Backwall-Vertical.
ABY30	5	44	5'-5 1/2"	Str.	2'-3"	1'-2"	2'-3"							Header-Vertical (Mall).
AWY31	5	58	4'-2"	Str.	8"	3'-11"								Parapet-Vertical.
AWY32	5	58	3'-11"	Str.										Parapet-Vertical.
ACH33	5	6	23'-6"	Str.										Parapet-Horizontal (Exterior).
ACH34	5	6	25'-10"	Str.	5'-4"	19'-10"	6"	6"	8 1/2"					Parapet-Horizontal (Exterior).
ACH35	5	6	5'-8"	Str.										Parapet-Horizontal (Exterior).
AWY36	5	18	8'-3 1/2"	Str.	3'-11"	8"	3'-11"							Curtainwall-Vertical.
ACH37	5	6	5'-4"	Str.										Parapet-Horizontal.
ACH38	5	6	8'-9"	Str.	3'-0"	5'-1"	6"	6"	8 1/2"					Parapet-Horizontal.
ACH39	5	26	3'-8"	Str.										Parapet & Curtainwall.
APH40	5	21	10'-4"	Str.	3'-10"	3'-6"	3'-3"	0'-4"	3'-3"					Pedestal-Horizontal.
AFY41	5	24	3'-11"	Str.										Pedestal-Vertical.
APH42	5	3	10'-4"	Str.	3'-10"	3'-6"	3'-3"							Horizontal-Pedestal.
FFY43	6	582	7'-3"	Str.										Pile reinforcement.

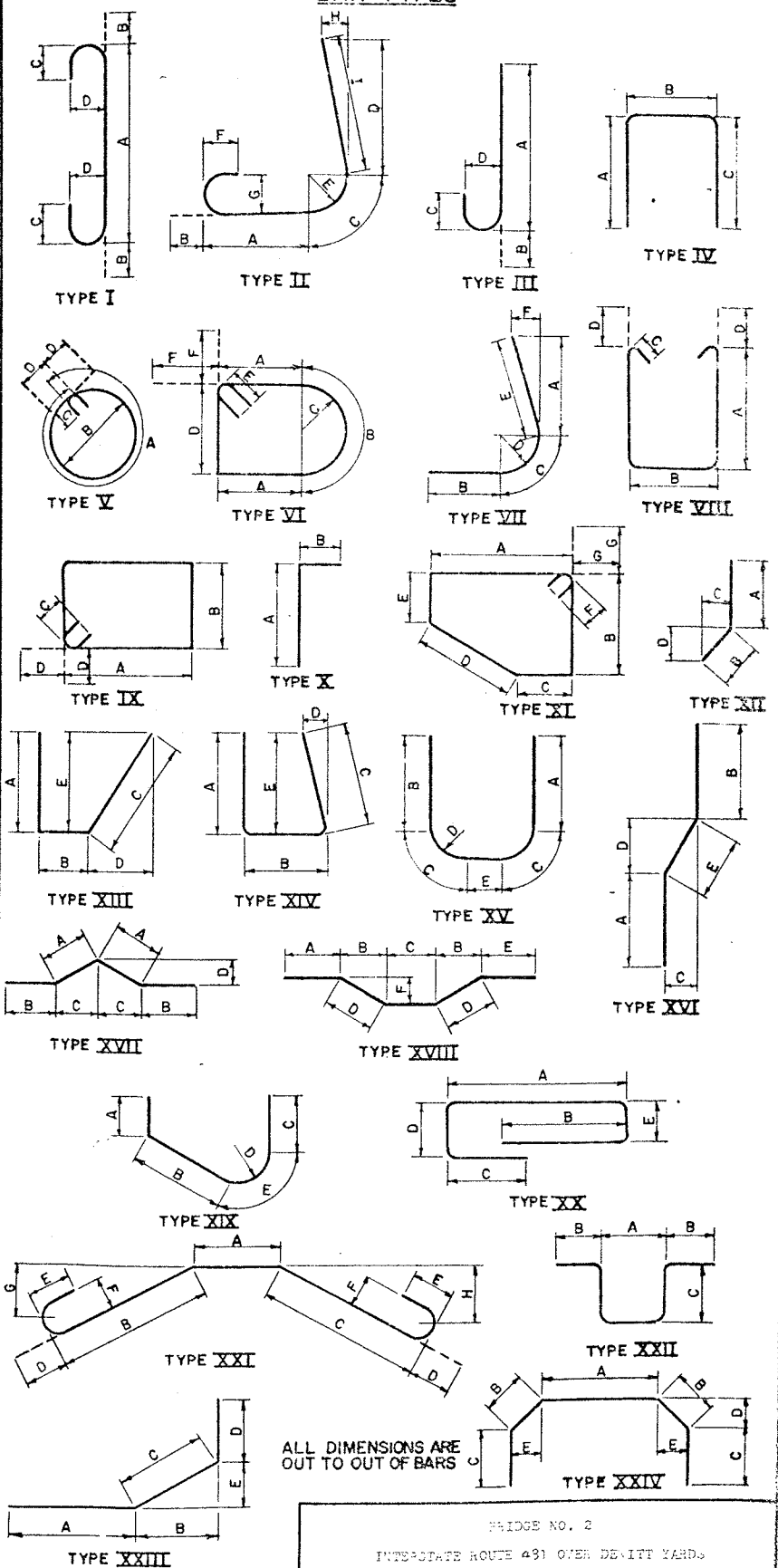
## NORTH ABUTMENT

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	I	LOCATION
AFL1	5	40	33'-4"	Str.										Longitudinal (Top & Bottom) footing.
AFL2	5	20	17'-6"	Str.										Longitudinal (Top & Bottom) footing.
AFL3	5	20	8'-7"	Str.										Longitudinal (Top & Bottom) footing.
AFT4	5	360	6'-0"	Str.										Transverse (Top & Bottom) footing.
AFV5	5	316	2'-10"	Str.										Dowels.
AFV6	5	24	4'-3"	Str.										Vertical pedestals.
AWV7	5	12	Varies	Str.	Varies from 10'-9" to 11'-2" in equal incre.									Vertical (Fr) west exterior wingwall.
AWV8	5	10	Varies	Str.	Varies from 9'-10" to 10'-1" in equal incre.									Vertical west interior wingwall.
AWV9	5	10	Varies	Str.	Varies from 10'-10" to 11'-8" in equal incre.									Vertical east interior wingwall.
AWV10	5	12	Varies	Str.	Varies from 10'-2" to 10'-7" in equal incre.									Vertical east exterior wingwall.
AWV11	5	16	8'-4"	Str.	3'-11"	8'	3'-11"							Vertical curtainwall sidewalks.
AWV12	6	50	4'-10"	Str.	4'-3"	8'	0"							Vertical parapets.
AWV13	6	50	4'-3"	Str.										Vertical parapets.
ABV14	5	38	Varies	Str.	Varies from 8'-11" to 9'-8" in equal incre. 2 sets									Vertical backwalls.
ABV15	5	24	Varies	Str.	Varies from 10'-6" to 11'-4" in equal incre.									Vertical mallwall.
ABV16	5	48	6'-0"	Str.	2'-6"	1'-2"	2'-6"							Vertical sidewalk on mallwall.
ABW17	5	22	5'-8"	Str.										Horizontal curtainwalls.
ABW18	5	22	19'-10"	Str.	14'-2"	5'-4"	6"	6"	8 1/2"					Horizontal outside wingwall (fr).
ABW19	5	16	16'-6"	Str.										Horizontal outside wingwall (rear).
ABW20	5	32	7'-7"	Str.										Horizontal inside wingwall (fr).
ABH21	5	36	40'-1"	Str.										Horizontal backwall.
ABH22	5	40	24'-0"	Str.										Horizontal mallwall (bottom).
APH24	5	6	10'-6"	Str.	3'-3"	4'-2"	3'-5"							Horizontal fascia pedestals.
APH25	5	18	9'-8"	Str.	3'-3"	3'-4"	3'-9"							Horizontal interior.
ACH26	5	6	5'-8"	Str.										Horizontal curtainwall sidewalks.
ACH27	5	6	19'-10"	Str.	14'-2"	5'-4"	6"							Horizontal outside wingwall sidewalks.
ACH28	5	6	16'-6"	Str.										Horizontal outside wingwall sidewalks.
ACH29	5	12	7'-6"	Str.										Horizontal inside wingwall sidewalks.
ACH30	5	12	1'-8"	Str.										Horizontal inside wingwall sidewalks.
ACH31	5	4	24'-0"	Str.										Horizontal mallwall sidewalks.
FFV32	6	384	7'-3"	Str.										Vertical all piles.
ABV33	5	40	Varies	Str.	Varies from 8'-9" to 9'-6" in equal incre. 2 sets									Vertical in back wall (Rear).
AWV34	5	22	Varies	Str.	Varies from 10'-5" to 10'-9" in equal incre.									Vertical in back of west ext. wingwall.
ABV35	5	64	Varies	Str.	Varies from 10'-6" to 11'-4" in equal incre.									Vertical in back of mallwall.
AWV36	5	2	11'-2"	Str.										Vertical in curtainwall (west).
ABH37	5	32	1'-8"	Str.										Horizontal in interior curtain walls.
AWV38	5	2	10'-7"	Str.										Vertical in curtainwall (East).
AWV39	5	22	Varies	Str.	Varies from 9'-9" to 10'-3" in equal incre.									Vertical in back of (East) ext wingwall.
AWV40	5	4	11'-3"	Str.										Vertical in interior (East) curtain wall.
AWV41	5	4	10'-6"	Str.										Vertical in interior (West) curtain wall.

FED. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-481-20-10	227	309

INTERSTATE ROUTE CONNECTION 570  
BUTTERFIELD INTERCHANGE (PHASE 2)  
ONONDAGA COUNTY

## BAR TYPES

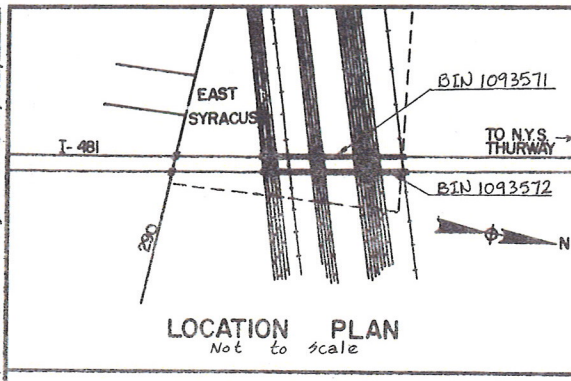


PROJECT ENGINEER *K. Marker*  
IN CHARGE OF *E. E. E.*  
DESIGNED BY  
DESIGN CHECKED BY  
DETAILED BY *A. S. S. S.*  
DETAIL CHECKED BY *A. S. S. S.*



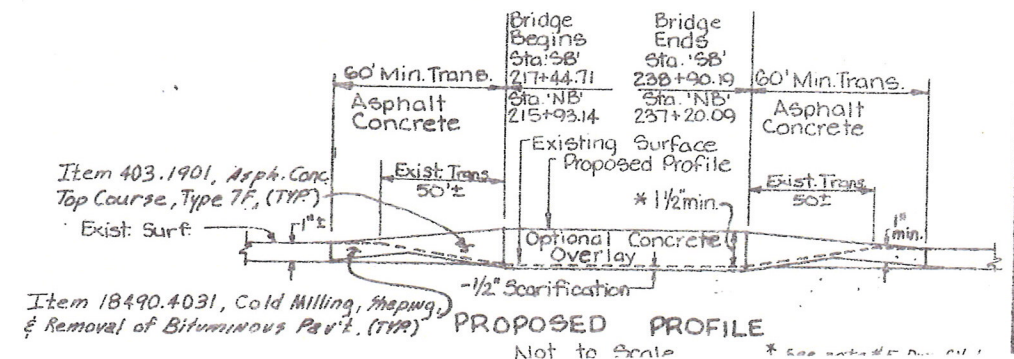
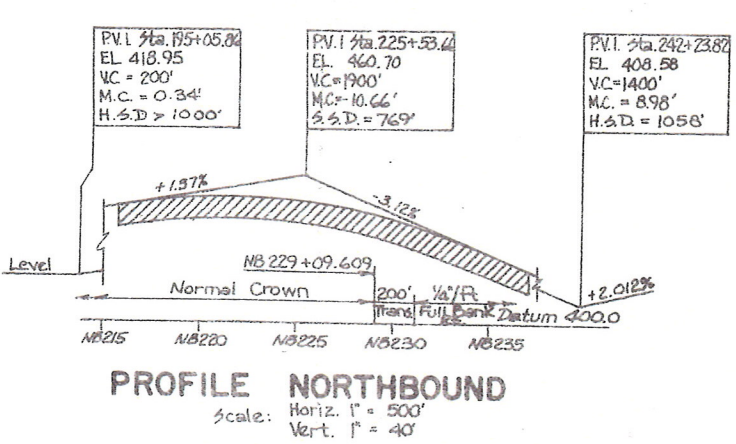
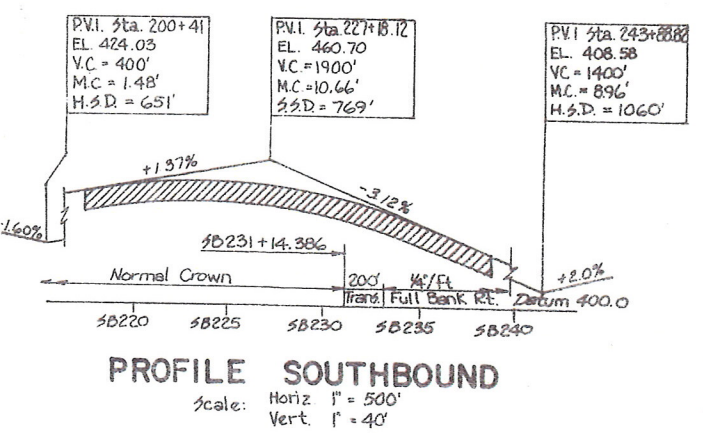
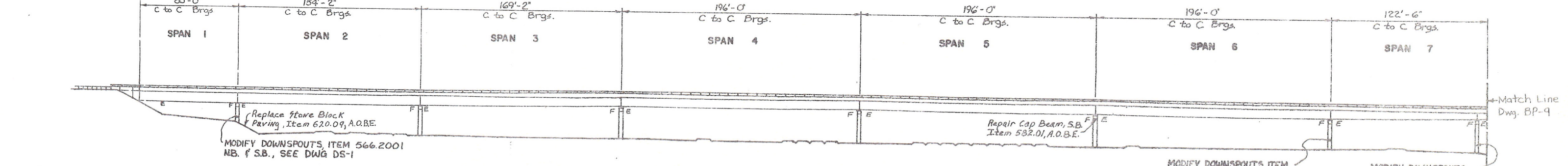
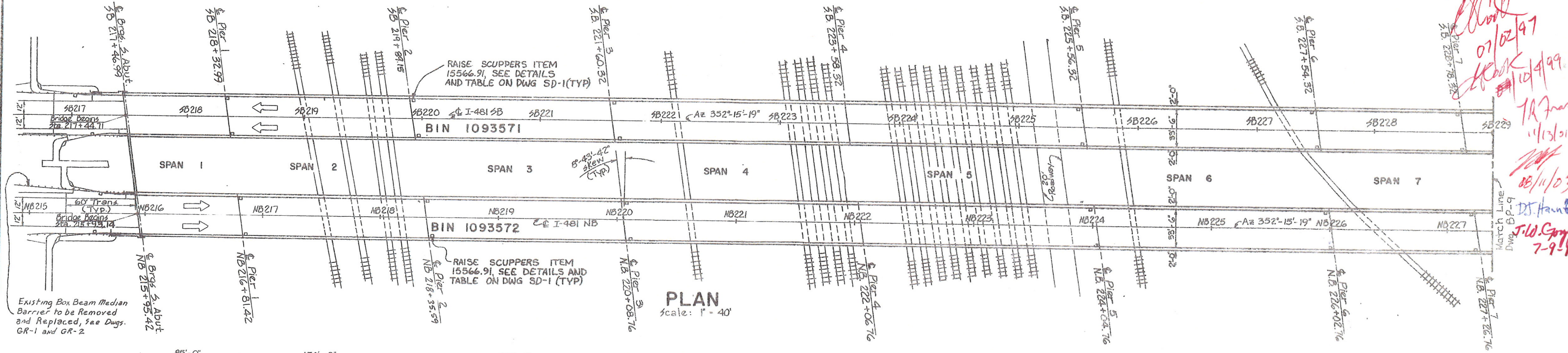
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-491-C174 3H1-491-C174	37	66
INTERSTATE ROUTE CONNECTION 570				
BUTTERNUT INTERCHANGE - PHASE 2				
BUTTERNUT INTERCHANGE TO COLLAMER, SH 70-7 ONONDAGA COUNTY				

Record plans were reviewed on 3/20/14 by GA. No suspect ACM was identified.



LOAD RATING	H/L LOADING
INVENTORY	OPERATING
H/L 21.7 (39T) L.F. *	H/L 36.3 (65T) L.F. *

Northbound and Southbound Bridges  
\* L.F. = Load Factor

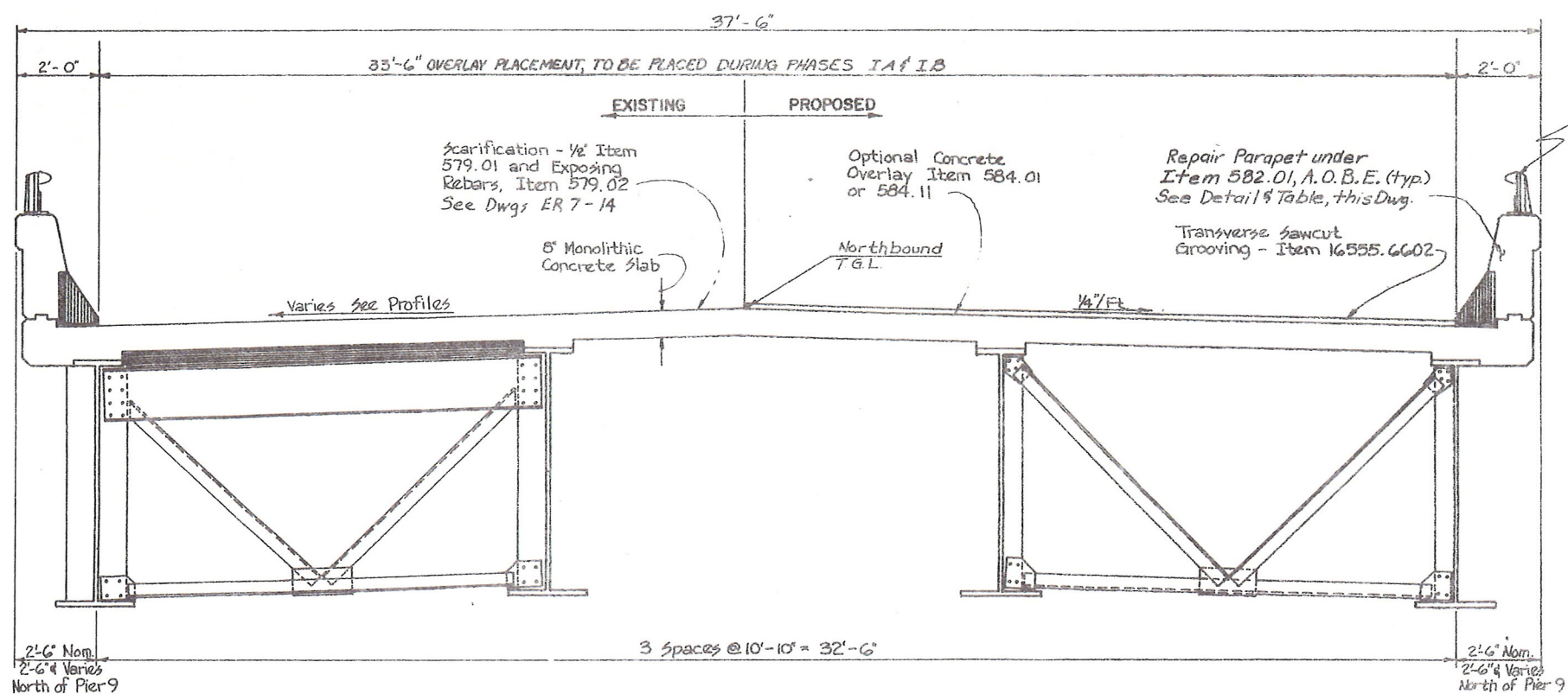


AS - BUILT REVISIONS	
SIGNATURE	DATE
BIN 1093571 AND 1093572 SB AND NB OVER CONRAIL	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
DRAWING NO.	SCALE
DATE	SHEET NO.



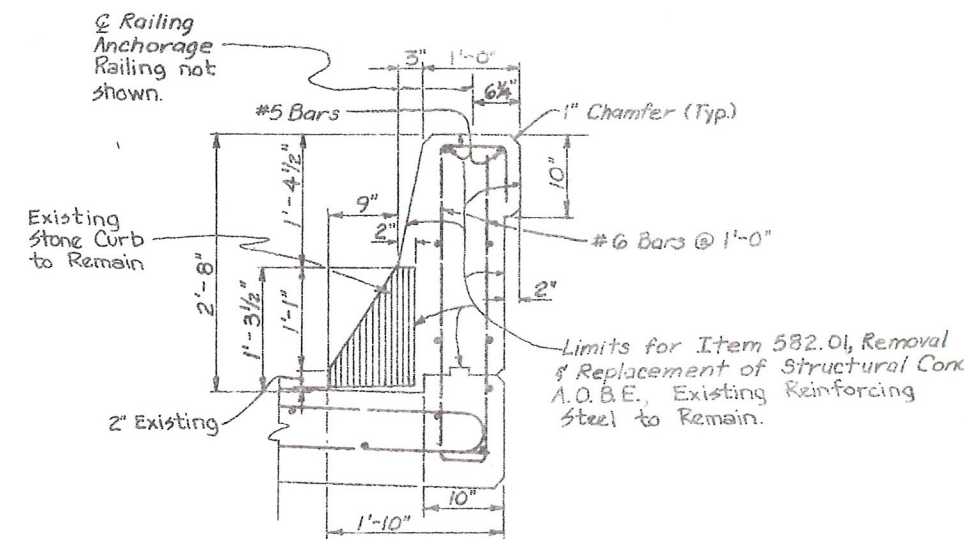
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	IR-431-(174) SH: 481-(174)	39	6

INTERSTATE ROUTE CONNECTION 570  
BUTTERNUT INTERCHANGE - PHASE 2  
BUTTERNUT INTERCHANGE TO COLLAMER,  
SH 70-7 ONONDAGA COUNTY

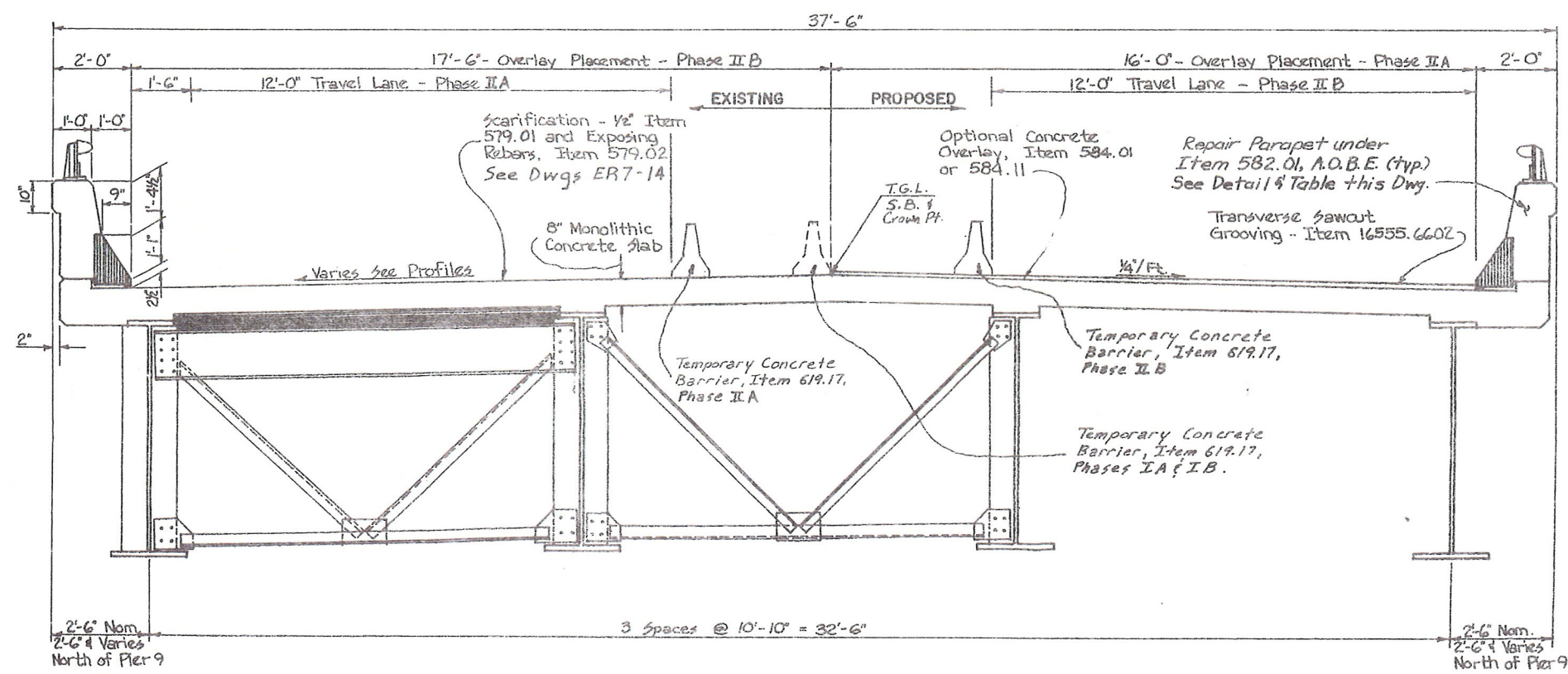


**TYPICAL BRIDGE SECTION**  
(N.B. Bridge Looking North)  
Scale: 1/2" = 1'-0"

Existing 1 Rail Bridge Railing to Remain (Typ.)



**PARAPET REPAIR DETAIL**  
Scale: 1" = 1'-0"



**TYPICAL BRIDGE SECTION**  
(S.B. Bridge Looking North)  
Scale: 1/2" = 1'-0"

REPAIR OF PARAPET WALL Item 582.01			
BIN 1093571		BIN 1093572	
SPAN #	EST. LENGTH	SPAN #	EST. LENGTH
4, Rt. Side	170 ft.	10, Rt. Side	55'
4, Lt. Side	70 ft.	15, Lt. Side	20'

AS - BUILT REVISIONS

SIGNATURE DATE

BIN 1093571 AND 1093572  
SB AND NB OVER CONRAIL

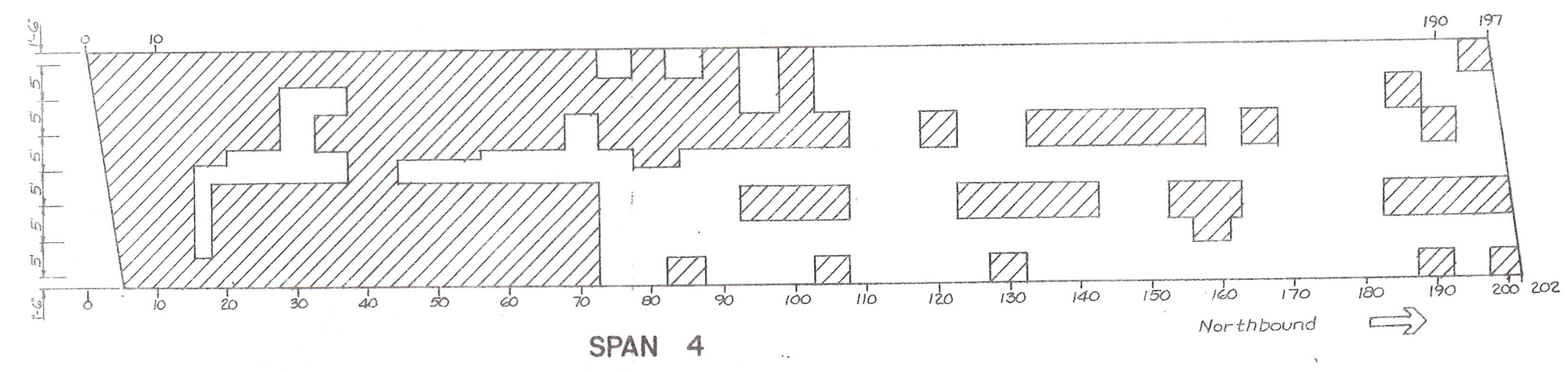
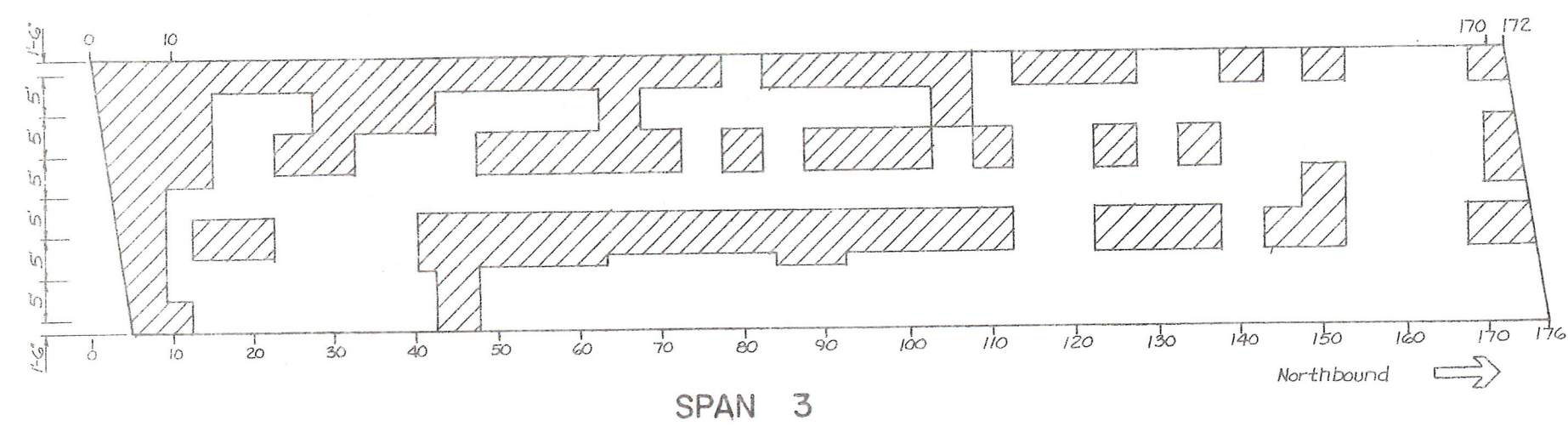
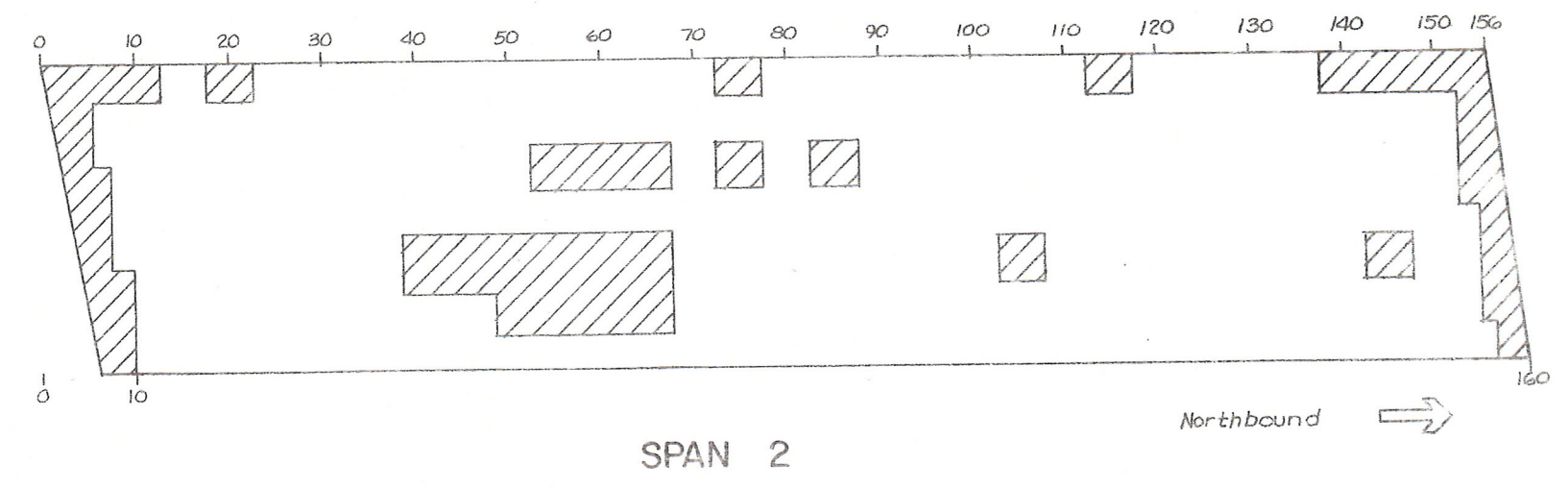
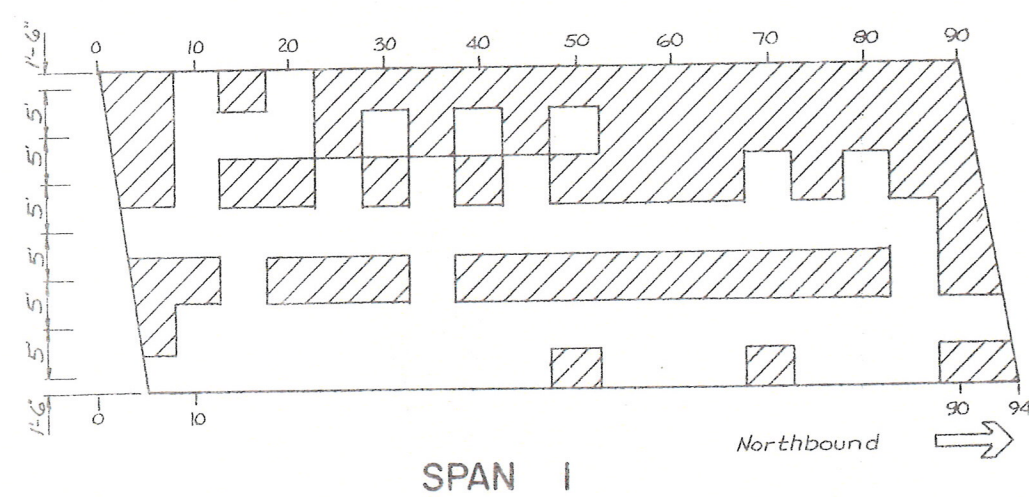
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

DRAWING NO. BPI0 SCALE As shown DATE REGION 3 SHEET 39

HC 47-2 (5/76) IN CHARGE OF *Michael D. C...* DESIGNED BY *Michael D. C...* CHECKED BY *Michael D. C...* ESTIMATED BY *Michael D. C...* CHECKED BY *Michael D. C...* DRAFTED BY *Michael D. C...* CHECKED BY *Michael D. C...* DATE 1/24/85



FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-431-C1745 BH1-481-C174	62	66
INTERSTATE ROUTE CONNECTION 570				
BUTTERNUT INTERCHANGE - PHASE 2				
BUTTERNUT INTERCHANGE TO COLLAMER, SH 70-7 ONONDAGA COUNTY				

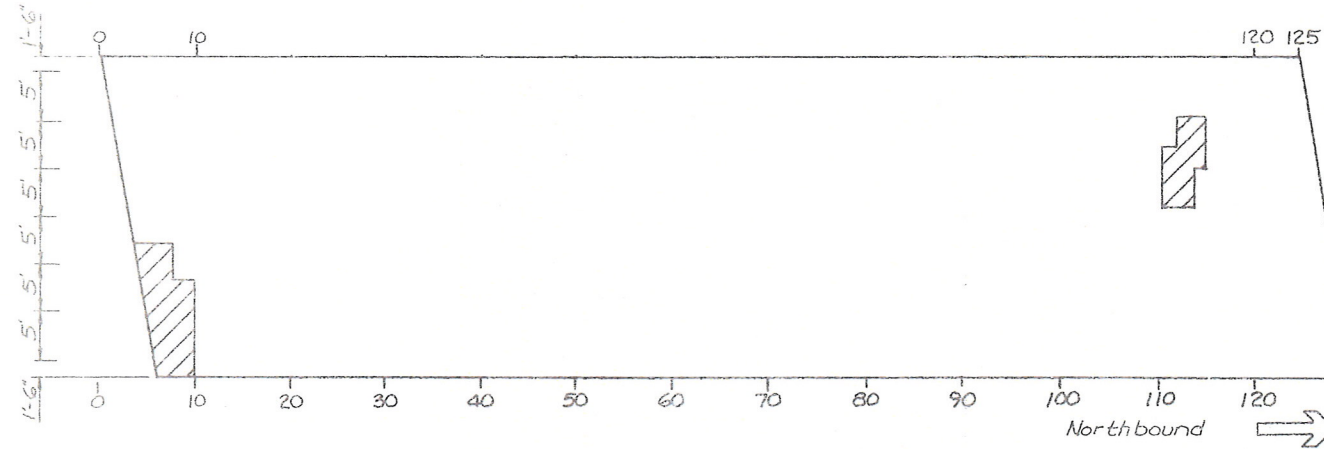


Approximate Area for Exposing  
Reinforcing Bars, Item 579.02

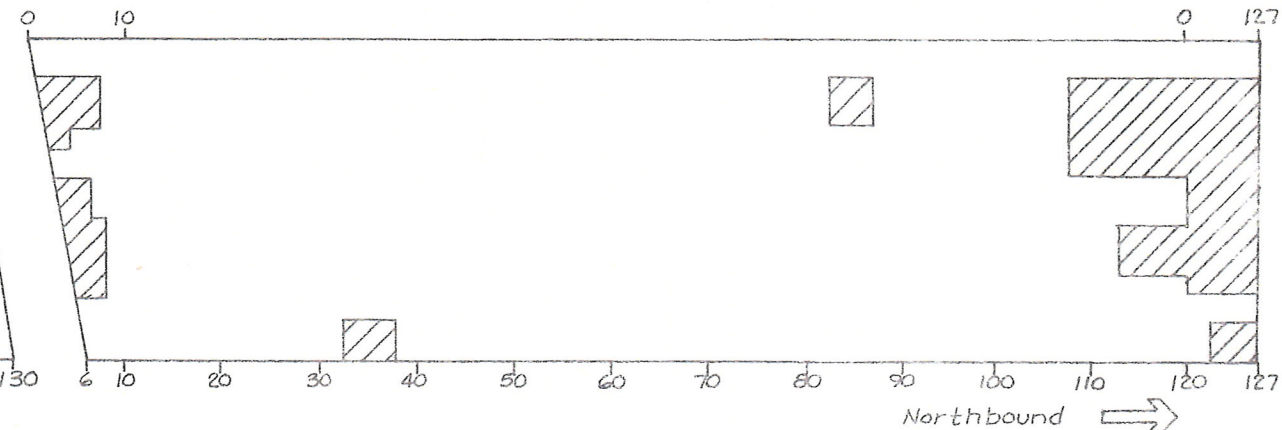
AS - BUILT REVISIONS	
SIGNATURE	DATE
BIN 1093572 I-481 NORTHBOUND OVER CONRAIL	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
DRAWING No. ER-11	SHEET NO. 62



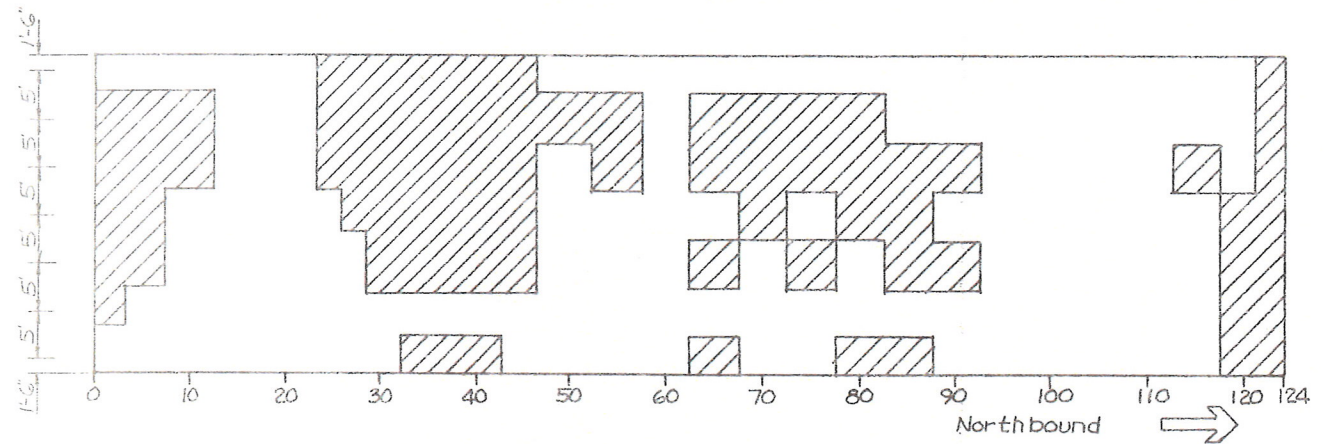
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEET
1	N.Y.	IR-481-(174) BRI 481 (174)	64	66
INTERSTATE ROUTE CONNECTION 570				
BUTTERNUT INTERCHANGE - PHASE 2				
BUTTERNUT INTERCHANGE TO COLLAMER, SH 70-7 ONONDAGA COUNTY				



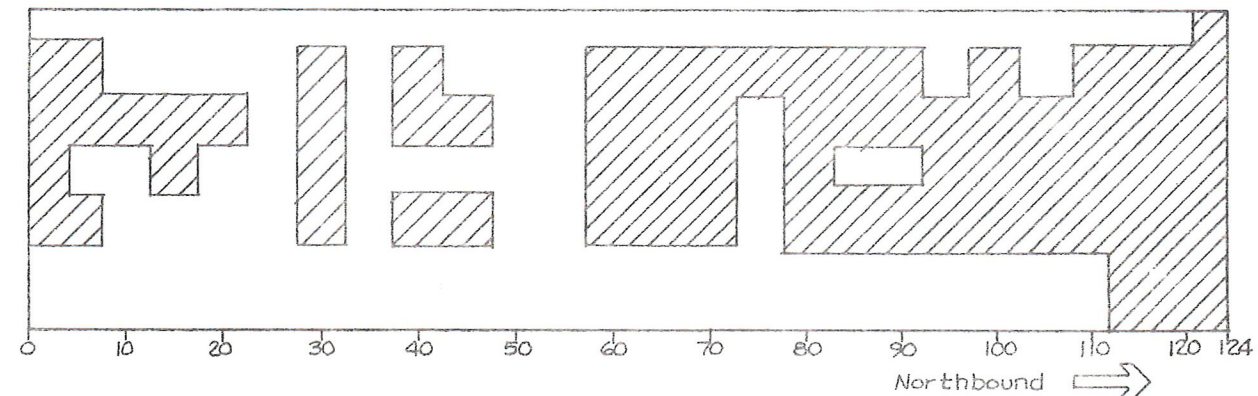
SPAN 9



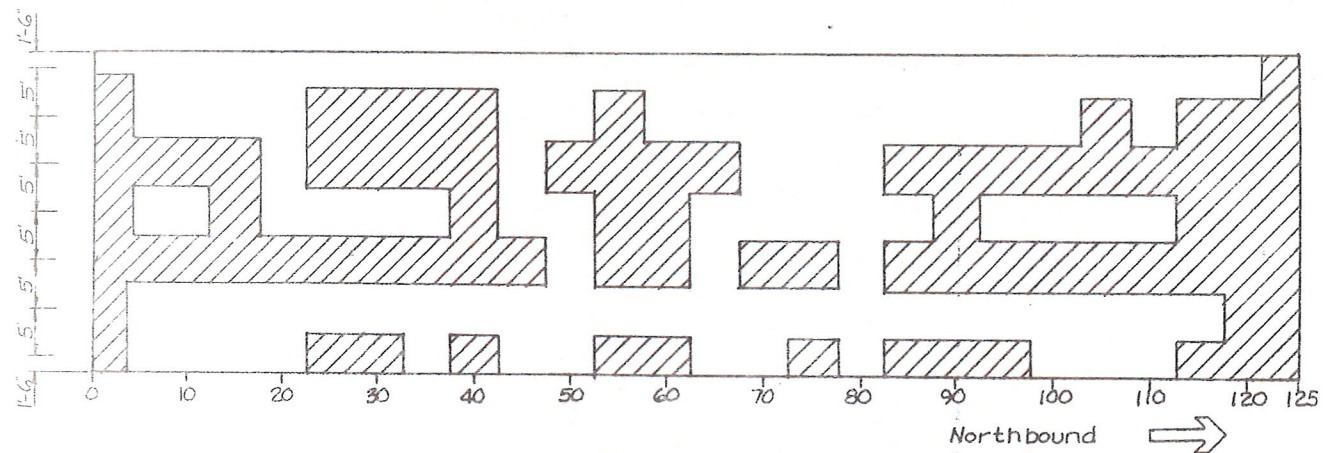
SPAN 10



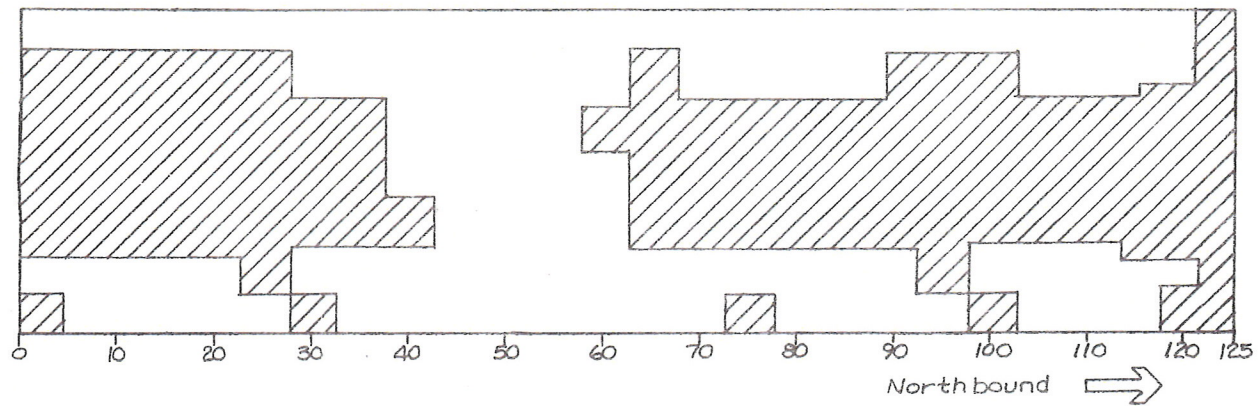
SPAN 11



SPAN 12



SPAN 13



SPAN 14



Approximate Area for Exposing  
Reinforcing Bars, Item 579.02

AS - BUILT REVISIONS

SIGNATURE

DATE

BIN 1093572 I-481 NORTHBOUND  
OVER CONRAIL

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

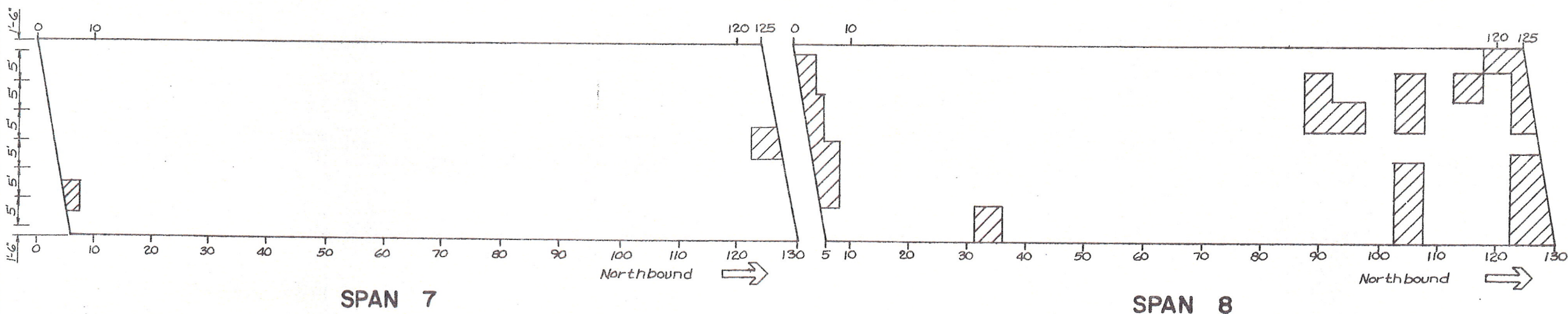
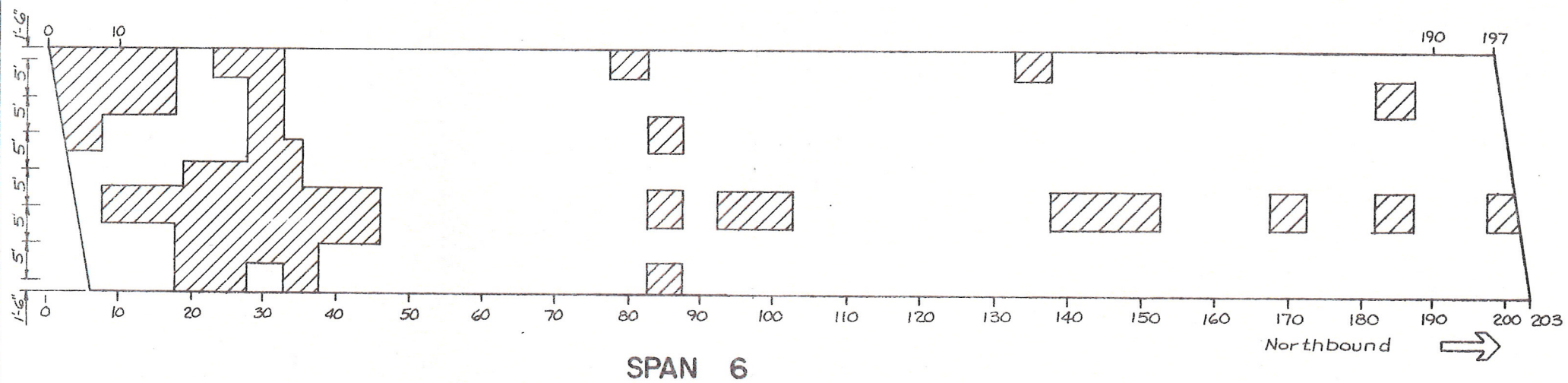
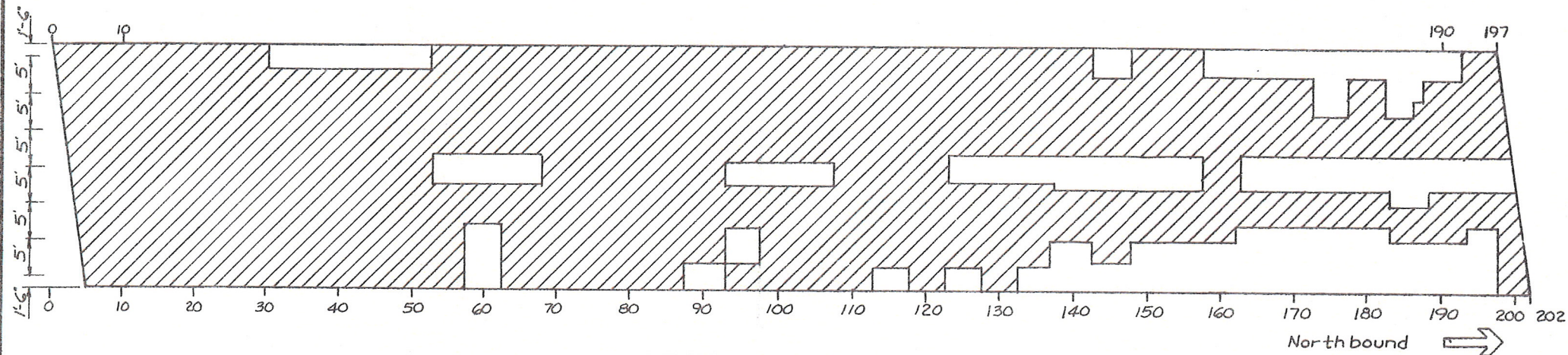
DRAWING No. ER-13 SCALE DATE REGION 3 SHEET NO. 64

IN CHARGE OF: Nick De Vries DESIGNED BY: Thomas J. Lipe CHECKED BY: David De Vries ESTIMATED BY: Thomas J. Lipe CHECKED BY: David De Vries DRAFTED BY: Thomas J. Lipe DATE: 1/24/85



FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TC SH
1	N.Y.	IR-431-(174) BN1-481-(174)	63	6
INTERSTATE ROUTE CONNECTION 570				
BUTTERNUT INTERCHANGE - PHASE 2				
BUTTERNUT INTERCHANGE TO COLLAMER, SH 70-7 ONONDAGA COUNTY				

IN CHARGE OF *Michael DeCicca* DESIGNED BY *Michael DeCicca* CHECKED BY *Michael DeCicca* ESTIMATED BY *Michael DeCicca* DRAFTED BY *Michael DeCicca* CHECKED BY *Michael DeCicca* DATE 1/24/85



Approximate Area for Exposing  
Reinforcing Bars, Item 579.02

AS - BUILT REVISIONS

SIGNATURE

DATE

BIN 1093572 1-481 NORTHBOUND  
OVER CONRAIL

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

DRAWING NO. ER-12 SCALE DATE REGION 3 SHEET NO. 63



IN CHARGE OF Walter Valverde DESIGNED BY Thomas G. King CHECKED BY Walter Valverde  
ESTIMATED BY Thomas G. King CHECKED BY Walter Valverde DRAFTED BY \_\_\_\_\_ DATE 1/24/83



IN CHARGE OF Walter Valverde DESIGNED BY Thomas G. King CHECKED BY Walter Valverde  
ESTIMATED BY Thomas G. King CHECKED BY Walter Valverde DRAFTED BY \_\_\_\_\_ DATE 1/24/83

IN CHARGE OF Walter Valverde DESIGNED BY Thomas G. King CHECKED BY Walter Valverde  
ESTIMATED BY Thomas G. King CHECKED BY Walter Valverde DRAFTED BY \_\_\_\_\_ DATE 1/24/83

IN CHARGE OF Walter Valverde DESIGNED BY Thomas G. King CHECKED BY Walter Valverde  
ESTIMATED BY Thomas G. King CHECKED BY Walter Valverde DRAFTED BY \_\_\_\_\_ DATE 1/24/83



FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	IR-481-(174) BHI-481-(174)	3	66
INTERSTATE ROUTE CONNECTION 570				
BUTTERNUT INTERCHANGE - PHASE 2				
BUTTERNUT INTERCHANGE TO COLLAMER, SH 70-7 ONONDAGA COUNTY				

## GENERAL NOTES

Design Specifications New York State Department of Transportation  
Standard Specifications for Highway Bridges with all provisions in effect  
as of August 1985.

The Load Ratings are in accordance with the AASHTO "Manual for Maintenance  
Inspection of Bridges - 1978".

Material and Construction Specifications: Standard Specifications,  
Construction and Materials, New York State Department of  
Transportation, Office of Engineering, dated January 2, 1985 with current  
additions and modifications.

## BRIDGE RECONSTRUCTION NOTES

The Contractor's attention is directed to the fact that, due to the nature  
of reconstruction projects, the exact extent of reconstruction work cannot  
always be accurately determined prior to the commencement of work.  
These Contract Documents have been prepared based on field inspection  
and other information available at the time. Actual field conditions may  
require modifications to construction details and work quantities.  
The Contractor shall perform the work in accordance with field conditions.

The Contractor shall perform all work with care so that any materials which are  
to remain the property of the State will not be damaged. If the  
Contractor damages any materials which are to remain in place, or  
which are to remain the property of the State, the damaged materials  
shall be repaired or replaced in a manner satisfactory to the  
Engineer at the expense of the Contractor.

Whenever items in the Contract require materials to be removed and  
disposed of, the cost of supplying a disposal area and transportation to  
that area shall be included in the unit price bid for those items.

During removal operations, the Contractor shall not be allowed to drop  
waste concrete, debris and other material to the area below the  
bridge except where the plans specifically permit the dropping of material.  
Platforms, nets, screens or other protective devices shall be used to  
catch the material. If the Engineer determines that adequate protective  
devices are not being employed, the work shall be suspended until  
adequate protection is provided.

All material falling on the area below and adjacent to the bridge shall be  
removed and disposed of by the Contractor.

The cost of furnishing, installing, maintaining, removing and disposing  
of all platforms, nets, screens or other protective devices shall be  
included in the unit bid price of the appropriate items of the Contract.

## SPECIAL NOTES

- The Contractor's attention is directed to the fact that these highways will be  
designated as Restricted Highways under this contract.
- The Contractor's attention is directed to subsection 105-09, "Work  
Affecting Railroads."
- For additional existing details of the bridges, see the Contract Record  
Plans FISH 70-7. These Plans are available in the Region 3 Office  
at 333 East Washington Street, Syracuse, New York.
- The Contractor shall schedule his bridge rehabilitation work on this project  
such that no scarification be left incomplete nor reinforcing steel left  
exposed over the winter months (November 15 - April 1).
- Special Notes for Optional Overlay Profiles, Scarification and Exposing  
Reinforcing Bars - see Dwg.
- The cost of all joint material will be included in the price bid for the various  
items of the contract, unless otherwise specified on the Plans.
- All concrete surfaces receiving new concrete shall be sandblasted. Just prior to the  
application of new concrete, the surfaces shall be air cleaned, wet down and coated  
with a thin coating of 1:1 mortar or neat cement paste thoroughly brushed into  
the surface. It will not be necessary to brush the mortar into surfaces made  
inaccessible by mesh or closely spaced reinforcement when so determined by  
the Engineer. There will be no separate payment for this work. The cost shall be  
included in the bid price for the various concrete items in the Contract.

## INDEX

DWG. NO.	SHEET NO.	DESCRIPTION
	1	Title Sheet
	2	Summary Quantities
	3	General Notes
GR-1-2	4-5	Guide Rail Sheets
MPT 1-23	6-28	Maintenance and Protection of Traffic
EQ-1	29	Quantity Estimate by Structure
BP-1	30	BIN 1093510
BP-2	31	BIN 1093520
BP-3	32	BIN 1093530
BP-4	33	BIN 1093540
BP-5	34	BIN 1093550
BP6-BP7	35-36	BIN 1093561 and 1093562
BP8-BP10	37-39	BIN 1093571 and 1093572
BPI1-BPI2	40-41	BIN 1093671 and 1093672
JDI-JD5	42-46	Joint Details
SD-1	47	Scupper Details
DS-1	48	Modifying Downspouts
RC-1	49	Railing Replacement Clamps
SN1-SN2	50-51	Special Notes
ERI-ER15	52-66	Exposing Rebar Details

WORK TO BE DONE  
(NOT NECESSARILY IN SEQUENCE)

	1093510	1093520	1093530	1093540	1093550	1093561	1093562	1093571	1093572	1093671	1093672
Scarify Structural Slab	•	•	•	•	•	•	•	•	•	•	•
Expose Reinforcing Bars	•	•	•	•	•	•	•	•	•	•	•
Transverse Saw Cut Grooving of Structural Slab Surface	•	•	•	•	•	•	•	•	•	•	•
Install Armoring Angle	•	•	•	•	•	•	•	•	•	•	•
Install Armored Joints with Compression Seals	•	•	•	•	•	•	•	•	•	•	•
Vertically adjust Open Armored Joint					•			•	•		
Vertically adjust Finger Joints								•	•		
Repair Parapet Wall								•	•		
Place Optional Concrete Overlay	•		•	•	•	•		•	•	•	•
CLEAN DOWNSPOUTS					•			•	•		
Replace Stone Block Paving								•	•		
Repair Abutment Backwalls	•	•	•	•	•	•	•			•	•
Replace Existing Railing Clamps	•	•	•	•	•	•	•			•	•
Alter Drop Inlets								•	•		
Vert. Adjust. Bridge Drain. Dev.								•	•		
Repair Cap Beams								•			
MODIFY DOWNSPOUTS								•	•		
Place Micro Silica Overlay		•					•				

## AS - BUILT REVISIONS

SIGNATURE

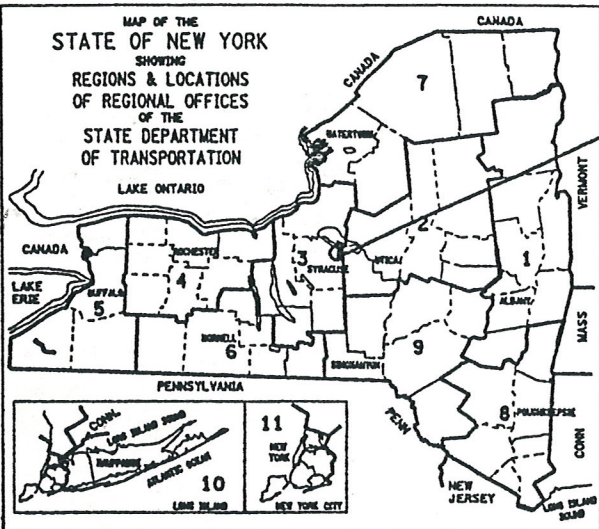
DATE

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

DRAWING NO. SCALE DATE REGION 3 SHEET 3



DESIGNED BY: *Wick* CHECKED BY: *John E. Fitch* ESTIMATED BY: *John E. Fitch* DRAFTED BY: *John E. Fitch* CHECKED BY: *John E. Fitch*



PROJECT LOCATION



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
OFFICE OF ENGINEERING

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO

VOLUME 1 OF 2

432 SHEETS ONONDAGA COUNTY CONTRACT D259214

F.A. PROJECT

3/3 1093572

2003

D259214

Record plans were reviewed on 3/20/14 by GA.  
There were notes on page 4 for the removal of asbestos-containing caulking and miscellaneous ACM.  
On page 59, there are asbestos removal notes.

STANDARD SHEETS

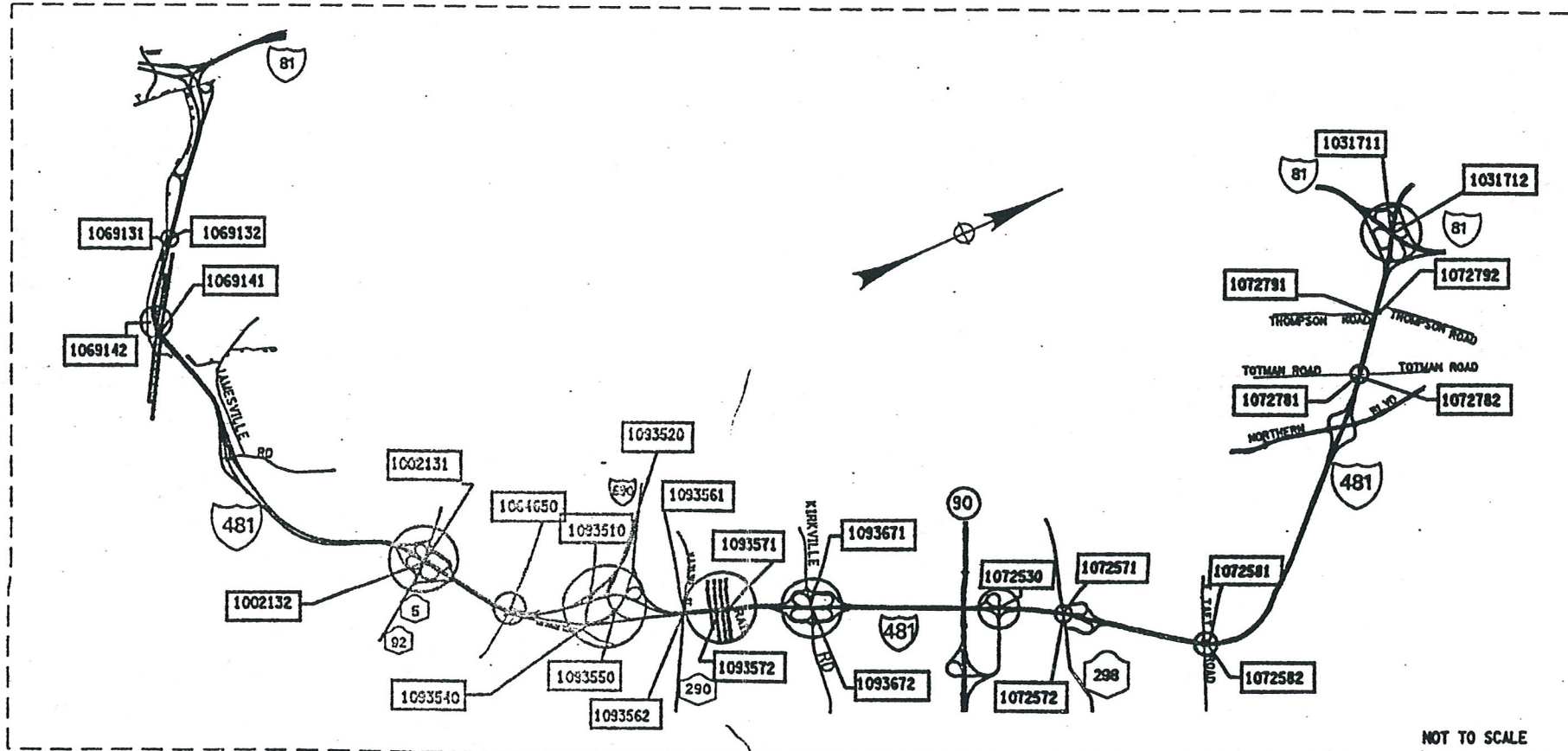
M203-4, M203-5, M203-6R1, M603-1  
M606-32, M606-33, M606-34,  
M619-3R1, M619-4, M619-5  
M685-1, M685-2R1, M685-3R1  
M685-4R1, M685-5R1, M403-1, M203-4,  
M203-5, M203-6R1, M603-1

*Bruneau* 6/26/2009  
*D.J. Hann* 7/11  
*J.W. Gonggwer* 7-9-13

THIS IS A BRIDGE REHABILITATION PROJECT ON VARIOUS BRIDGES ON INTERSTATE 481, LOCATED IN THE TOWNS OF CICERO AND DEWITT IN ONONDAGA COUNTY. THIS WORK CONSISTS OF BRIDGE JOINTS, BEARINGS, BRIDGE RAIL AND CONCRETE REPAIR OF SUBSTRUCTURES. THERE ARE 28 BRIDGES IN THE PROJECT BEGINNING AT REFERENCE MARKER 4811-3301-1000 SOUTH OF THE CITY OF SYRACUSE AND ENDING AT REFERENCE MARKER 4811-3301-2143. 1481 INTERCHANGE NORTH OF THE CITY.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (METRIC UNITS) OF JANUARY 2, 2002, AS AMENDED BY ADDENDA NOS. 1 AND 2, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

CONTRACTOR'S NAME \_\_\_\_\_  
AWARD DATE \_\_\_\_\_  
COMPLETION DATE \_\_\_\_\_  
FINAL ACCEPTANCE DATE \_\_\_\_\_  
REGIONAL DIRECTOR \_\_\_\_\_  
ENGINEER IN CHARGE \_\_\_\_\_  
FINAL COST TOTAL \_\_\_\_\_  
FISCAL SHARE \_\_\_\_\_ COST(S) \_\_\_\_\_

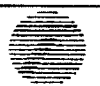




CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
DESIGNED BY

INDEX		
SHEET NO.	DESCRIPTION	DRAWING NO.
1	TITLE SHEET	COVER
2,3,4	ESTIMATE OF QUANTITIES	
5,6	INDEX	IDX-1 - IDX-2
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156	CROSSOVER TYPICAL SECTION	CTS-1
157-160	CROSSOVER SURVEY CONTROL DATA	HC-1 - HC-4
161-166	CROSSOVER PLANS	CPL-1 - CPL-6
167-174	CROSSOVER PROFILES	CPR-1 - CPR-8
175-177	CROSSOVER MISC. DETAILS	CMD-1 - CMD-3
178-179	CROSSOVER MISC. TABLES	CMT-1 - CMT-2
180-191	ESTIMATE OF QUANTITIES BY STRUCTURE	QE-1A - QE-4C
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194	BIN 1002131, TYPICAL BRIDGE SECTION AND PROFILE	TS1-1
195-197	BIN 1002131, SOUTH ABUTMENT (SB)	AB1-1 - AB1-3
198-199	BIN 1002131, NORTH ABUTMENT (SB), SHEET PILING LAYOUT	AB1-4 - AB1-5
200-201	BIN 1002131 PIER 1 & PIER 2 SB REMOVAL DETAILS	PR1-1 & PR1-2
202	BIN 1002131, PEDESTAL REPLACEMENT	PR1-3
203	BIN 1002131, BOLSTER DETAILS	PR1-4
204	BIN 1002131, ANCHOR BOLT LAYOUT (SB)	PR1-5
205	BIN 1002132, I481NB/RT. 5, PLAN AND ELEVATION	GP2-1
206-207	BIN 1002132, TYPICAL BRIDGE SECTION AND PROFILE, APPROACH SECTION	TS2-1 & TS2-2
208-213	BIN 1002132, SOUTH ABUTMENT (NB)	AB2-1 - AB2-6
214-219	BIN 1002132, NORTH ABUTMENT (NB)	AB2-7 - AB2-12
220-221	BIN 1002132, PIERS (NB)	PR2-1 & PR2-2
222	BIN 1002132, PEDESTAL REPLACEMENT (NB)	PR2-3
223	BIN 1002132, BOLSTER DETAILS (NB)	PR2-4
224	BIN 1002132, ANCHOR BOLT LAYOUT (NB)	PR2-5
225	BIN 1031711 AND 1031712, I-481/I-81, PLAN AND ELEVATION	GP3-1
226	BIN 1031711 & 1031712, TYPICAL BRIDGE SECTION AND PROFILE	TS3-1
227	BIN 1031711, EAST ABUTMENT (SB) PLAN & ELEVATION	AB3-1
228	BIN 1031711, WEST ABUTMENT (SB) PLAN & ELEVATION	AB3-2
229	BIN 1031712, EAST ABUTMENT (NB) PLAN & ELEVATION	AB3-3
230	BIN 1031712, WEST ABUTMENT (NB) PLAN & ELEVATION	AB3-4
231	BIN 1031711 & 1031712, APPROACH SLABS	AS3-1
232	BIN 1064650, KINNE RD/1-481, PLAN, ELEVATION, AND BRIDGE SECTION	GP4-1
233	BIN 1069131 & 1069132, I-481/QUARRY DRIVEWAY, PLAN AND ELEVATION	GP5-1
234	BIN 1069131 & 1069132, TYPICAL BRIDGE SECTION AND PROFILE AND BRIDGE SECTION	TS5-1
235	BIN 1069131, WEST ABUTMENT (SB) PLAN & ELEVATION	AB5-1
236	BIN 1069131, EAST ABUTMENT (SB) PLAN & ELEVATION	AB5-2
237	BIN 1069132, EAST ABUTMENT (NB) PLAN & ELEVATION	AB5-3
238-239	BIN 1069141 & 1069142, I-481/NYS + W RAILROAD, GENERAL PLAN AND ELEVATION	GP6-1 - GP6-2
240-241	BIN 1069141 & 1069142, TYPICAL BRIDGE SECTION AND PROFILES	TS6-1 & TS6-2
242	BIN 1069141, WEST ABUTMENT (SB) PLAN & ELEVATION	AB6-1
243	BIN 1069141, EAST ABUTMENT (SB) PLAN & ELEVATION	AB6-2
244	BIN 1069142, WEST ABUTMENT (NB) PLAN & ELEVATION	AB6-3
245	BIN 1069142, EAST ABUTMENT (NB) PLAN & ELEVATION	AB6-4

INDEX (CONTINUED)		
SHEET NO.	DESCRIPTION	DRAWING NO.
246	BIN 1072530, RAMP TO I-481/I-481, PLAN, ELEVATION AND BRIDGE SECTION	GP7-1
247-248	BIN 1072530, EAST ABUTMENT	AB7-1 - AB7-2
249	BIN 1072571 & BIN 1072572, I-481/ROUTE 298 PLAN AND ELEVATION AND BRIDGE SECTION	GP8-1
250	BIN 1072571 & BIN 1072572, TYPICAL BRIDGE SECTION AND PROFILE	TS8-1
251	BIN 1072571, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB8-1
252	BIN 1072571, NORTH ABUTMENT (SB) PLAN & ELEVATION	AB8-2
253	BIN 1072572, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB8-3
254	BIN 1072581 & BIN 1072582, I-481/TAFT ROAD, PLAN AND ELEVATION	GP9-1
255	BIN 1072581 & 1072582, TYPICAL BRIDGE SECTION AND PROFILE	TS9-1
256-257	BIN 1072581, SOUTH ABUTMENT AND NORTH ABUTMENT (SB)	AB9-1 & AB9-2
258-259	BIN 1072582, SOUTH ABUTMENT AND NORTH ABUTMENT (NB)	AB9-3 & AB9-4
260	BIN 1072781 & BIN 1072782, I-481/TOTMAN ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP10-1
261	BIN 1072781 & BIN 1072782 TYPICAL BRIDGE SECTION AND PROFILE	TS10-1
262-263	BIN 1072781, EAST ABUTMENT (SB) PLAN & ELEVATION	AB10-1 & AB10-2
264	BIN 1072782, WEST ABUTMENT (NB) PLAN & ELEVATION	AB10-3
265	BIN 1072781, APPROACH SLABS	AS10-1
266	BIN 1072791 & BIN 1072792, I-481/ THOMPSON ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP11-1
267	BIN 1072791 & BIN 1072792 TYPICAL BRIDGE SECTIONS AND PROFILE	TS11-1
268	BIN 1072791, EAST & WEST ABUTMENTS (SB)	AB11-1
269	BIN 1072791, APPROACH SLAB (SB)	AS11-1
270	BIN 1093510, I-690 RAMP/ I-481SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP12-1
271	BIN 1093510, WEST ABUTMENT PLAN & ELEVATION	AB12-1
272	BIN 1093520, WN LINE OVER INTERSTATE 481 SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP13-1
273	BIN 1093520, WEST ABUTMENT PLAN & ELEVATION	AB13-1
274	BIN 1093540, I-690 EB/ I-481 NB RAMP, PLAN, ELEVATION, AND BRIDGE SECTION	GP14-1
275	BIN 1093540 TYPICAL BRIDGE SECTION AND PROFILE	TS14-1
276	BIN 1093540, WEST ABUTMENT	AB14-1
277	BIN 1093550, I-481 NB/WB CONNECTOR, PLAN, ELEVATION, AND BRIDGE SECTION	GP15-1
278	BIN 1093550, SOUTH ABUTMENT, NB PLAN & ELEVATION	AB15-1
279	BIN 1093550, NORTH ABUTMENT, NB PLAN & ELEVATION	AB15-2
280	BIN 1093561 & 1093562, I-481/ROUTE 290, PLAN, ELEVATION AND BRIDGE SECTION	GP16-1
281	BIN 1093561 & 1093562 TYPICAL BRIDGE SECTION AND PROFILE	TS16-1
282	BIN 1093561, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB16-1
283	BIN 1093562, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB16-2
284-287	BIN 1093571 & BIN 1093572, I-481/CSX RAILROAD YARD, PLAN & ELEVATION	GP17-1 - GP17-4
288	BIN 1093571 AND BIN 1093572, TYPICAL BRIDGE SECTION AND PROFILES	TS17-1
289-293	BIN 1093571 AND BIN 1093672, DRAINAGE DETAILS	DD17-1 - DD17-5
294-296	BIN 1093571 AND BIN 1093672, SCUPPER EXTENSIONS	DD17-6 - DD17-8
297-314	BIN 1093571, PIERS 1-14, (SB)	PR17-1S - PR17-18S
315	BIN 1093572, SOUTH ABUTMENT (NB)	AB17-1
316-329	BIN 1093572, PIERS 1-14 (NB)	PR17-1N - PR17-14N
330-331	BIN 1093571 AND 1093572, PARAPET REPAIR DETAILS	PW17-1 & PW17-2
332	BIN 1093572, BRIDGE DECK REPAIRS	DR17-1

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	5	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. ALL BINS		
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED				
AS BUILT REVISIONS				
SIGNATURE		DATE		
INTERSTATE 481 REHABILITATION PROJECT				
INDEX				
				
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION				
FILENAME	REGION	DATE	DRAWING NO.	
305613AAL2A	3	10/02	IDX-1	



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DRAWN BY  
ESTIMATED BY  
DATE

INDEX (CONTINUED)		
SHEET NO.	DESCRIPTION	DRAWING NO.
333	BIN 1093671 & 1093672, I-481/KIRKVILLE ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP18-1
334	BIN 1093671 & BIN 1093672 TYPICAL BRIDGE SECTION AND PROFILE	TS18-1
335-336	BIN 1093671, SOUTH ABUTMENT (SB) PLAN, ELEVATION AND SECTIONS	AB18-1 - AB18-2
337	BIN 1093671, NORTH ABUTMENT (NB) PLAN & ELEVATION	AB18-3
338-339	BIN 1093672, SOUTH ABUTMENT (NB) PLAN, ELEVATION AND SECTIONS	AB18-4 - AB18-5
340	BIN 1093672, NORTH ABUTMENT (NB) PLAN & ELEVATION	AB18-6
341-342	BIN 1002131, BIN 1002132 & BIN 1093571, MULTIROTATIONAL BEARINGS	BR-1 & BR-2
343	BIN 1002131, BEARING RESTORATION DETAILS	BR-3
344	BINS 1069131 & 1069132, BEARING RESTORATION DETAILS	BR-4
345-346	BIN 1069141 & BIN 1069142, BEARING RESTORATION DETAIL	BR-5 & BR-6
347	BIN 1072530, BEARING RESTORATION DETAILS	BR-7
348	BIN 1072791 AND BIN 1072792 BEARING RESTORATION DETAILS	BR-8
349	BIN 1093550, BEARING RESTORATION DETAILS	BR-9
350-351	BINS 1093751 & 1093572, BEARING RESTORATION DETAILS	BR-10 & BR-11
352	BIN 1072781 BEARING RESTORATION DETAILS	BR-12
	RAILING DETAILS	
353-355	BIN 1002131 & BIN 1002132, RAILING DETAILS	RD-1 - RD-3
356-358	BIN 1069141 & BIN 1069142, RAILING DETAILS	RD-4 - RD-6
359-360	RAILING DETAILS	RD-7 - RD-8
	BRIDGE JOINTS	
361-364	BRIDGE JOINT TABLE	JT-1 - JT-4
365	COMPRESSION SEAL JOINT DETAIL (ALL BRIDGES)	JD-1
366-370	BIN 1002131, JOINT DETAILS	JD-2 - JD-6
371-375	BIN 1002132, JOINT DETAILS	JD-7 - JD-11
376-377	BIN 1031711 & BIN 1031712, JOINT DETAILS	JD-12 - JD-13
378-383	BIN 1064650, JOINT DETAILS	JD-14 - JD-19
384-385	BIN 1069131, JOINT DETAILS	JD-20 + JD-21
386-387	BIN 1069132, JOINT DETAILS	JD-22 + JD-23
388-392	BIN 1069141 & BIN 1069142	JD-24 - JD-28
393-394	BIN 1072530, JOINT DETAILS	JD-29 + JD-30
395-396	BIN 1072571, JOINT DETAILS	JD-31 + JD-32
397-398	BIN 1072572, JOINT DETAILS	JD-33 + JD-34
399-400	BIN 1072581, JOINT DETAILS	JD-35 + JD-36
401-402	BIN 1072582, JOINT DETAILS	JD-37 + JD-38
403-404	BIN 1072781, JOINT DETAILS	JD-39 + JD-40
405-406	BIN 1072782, JOINT DETAILS	JD-41 + JD-42
407-408	BIN 1072792, JOINT DETAILS	JD-43 + JD-44
409-410	BIN 1093510, JOINT DETAILS	JD-45 + JD-46
411	BIN 1072791, BIN 1093520 & BIN 1093540, JOINT DETAILS	JD-47
412-413	BIN 1093550, JOINT DETAILS	JD-48 + JD-49
414-416	BIN 1093561 & BIN 1093562, JOINT DETAILS	JD-50 - JD-52
417-420	BIN 1093571 & BIN 1093572, JOINT DETAILS	JD-53 - JD-56
421-423	BIN 1093671 & BIN 1093672, JOINT DETAILS	JF-57 - JD-59

INDEX (CONTINUED)		
SHEET NO.	DESCRIPTION	DRAWING NO.
424	VARIOUS BRIDGES - ROAD PLATE DETAIL	AA - RP1
	BAR LIST	
425-428	ALL BINS (BRIDGE JOINT SYSTEMS)	BL-1 - BL-4
429	BIN 1002131 & 1002132	BL-5
430	BIN 1093571	BL-6
431	STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	MS-1
432	MISC. TABLE	MT-1

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	6	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGE ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	


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SIGNATUREDATE

INTERSTATE 481  
REHABILITATION PROJECT

INDEX

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAMEREGIONDATEDRAWING NO.  
305613AAL2A310/02IDX-2







ESTIMATE OF QUANTITIES BY STRUCTURE																
ITEM #	DESCRIPTION	UNIT	1093550		1093561		1093562		1093571		1093572		1093671		1093672	
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
570.090004 M	ENVIRONMENTAL GROUND PROTECTION	LS	---	---	---	---	---	---	---	---	---	---	---	---	---	---
570.100001 M	ENVIRONMENTAL WATERWAY PROTECTION	LS	---	---	---	---	---	---	NEC	---	---	---	---	---	---	---
570.100002 M	ENVIRONMENTAL WATERWAY PROTECTION	LS	---	---	---	---	---	---	---	NEC	---	---	---	---	---	---
16570.32 M	LOCALIZED PAINTING OF BARE STRUCTURAL STEEL	SM	---	---	---	---	---	---	18	---	21	---	---	---	---	---
16570.72 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL PLANAR SURFACES	SM	---	---	---	---	---	---	18	---	21	---	---	---	---	---
16570.76 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL - IRREGULAR	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
571.010001 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---	---	---	---	---	---	1	---	---	---	---	---	---	---
571.010002 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---	---	---	---	---	---	---	1	---	---	---	---	---	---
571.010003 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
571.010004 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
572.010001 M	STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED	SM	---	---	---	---	---	---	1	---	---	---	---	---	---	---
572.010002 M	STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED	SM	---	---	---	---	---	---	---	---	1	---	---	---	---	---
576.2001M	DOWNSPOUT SYSTEM, DUCTILE IRON	M	---	---	---	---	---	---	3	---	4	---	---	---	---	---
578.020001 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.020002 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.020003 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.020004 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	---	---	---	---	77	---	---	---	---	---
578.020005 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	12	---	---	---	---	---	---	---	---	---
578.030001 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.030002 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.030003 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.030004 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	77	---	---	---	---	---
578.030005 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	12	---	---	---	---	---	---	---	---	---
578.030006 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.030007 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
579.02 M	REINFORCING BAR EXPOSURE	SM	---	---	---	---	12	---	---	---	77	---	---	---	---	---
580.01 M	REMOVAL OF STRUCTURAL CONCRETE	CM	2	---	2	---	2	---	62	---	15	---	2	---	2	---
582.05 M	REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE	CM	16	---	1	---	1	---	43	---	46	---	2	---	5	---
582.07 M	REMOVE STRUCTURAL CONCRETE AND REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL	SM	---	---	---	---	---	---	151	---	221	---	---	---	---	---
16584.13 M	RAPID SETTING CONCRETE FOR BRIDGE AND APPROACH SLAB REPAIRS	KG	---	---	---	---	---	---	---	---	---	---	---	---	---	---
585.01 M	STRUCTURAL LIFTING OPERATIONS - TYPE A	EA	12	---	---	---	---	---	---	---	---	---	---	---	---	---
585.02 M	STRUCTURAL LIFTING OPERATIONS - TYPE B	EA	---	---	---	---	---	---	21	---	25	---	---	---	---	---
585.03 M	STRUCTURAL LIFTING OPERATIONS TYPE C	EA	---	---	---	---	---	---	35	---	35	---	---	---	---	---
586.01 M	DRILL AND GROUT BOLTS, OR REINFORCING BARS	MM	19200	---	13050	---	16650	---	53700	---	59100	---	15600	---	15600	---
17586.18M	DRILLING HOLES IN EXISTING SUBSTRUCTURE	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16586.200125 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16586.200216 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---
587.01 M	BRIDGE RAILING REMOVAL AND DISPOSAL	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---
589.520001 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	4	---	---	---	---	---	---	---
589.520002 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	---	---	5	---	---	---	---	---
589.520003 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---
589.520004 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---
589.520005 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	8	---	---	---	---	---	---	---
590.01M	VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES	EA	---	---	---	---	---	---	7	---	9	---	---	---	---	---
603.6001 M	REINFORCED CONCRETE PIPE CLASS III, 300 mm	M	---	---	---	---	---	---	---	---	4	---	---	---	---	---
603.7301M	REINFORCED CONCRETE PIPE END SECTION 300 mm DIAMETER	EA	---	---	---	---	---	---	---	---	3	---	---	---	---	---

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	190	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

### AS BUILT REVISIONS

**SIGNATURE**

DATE:

**SHEET 11 OF 12**

### ESTIMATE OF QUANTITIES

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME  
305613.L1A

**REGION**  
**3**

DATE  
10/02

DRAWING NO.  
QE-4B



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100

## ESTIMATE OF QUANTITIES BY STRUCTURE

[illegible]

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
		D259214		
1	N.Y.		191	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.L.N. VARIOUS	

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT; ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE; SPEC BOOK/PROPOSAL
m	M	METER
m <sup>2</sup>	SQM	SQUARE METER
m <sup>3</sup>	CM	CUBIC METER
km	KM	KILOMETER
ha	HA	HECTARE
kg	KG	KILOGRAM
t OR <i>meg</i>	MT	METRIC TON
L	L	LITER

• THE METRIC TON IS EQUIVALENT TO ONE MEGAGRAM (Mg)

ALL DIMENSIONS ARE IN IN UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

**SHEET 12 OF 12**

### ESTIMATE OF QUANTITIES

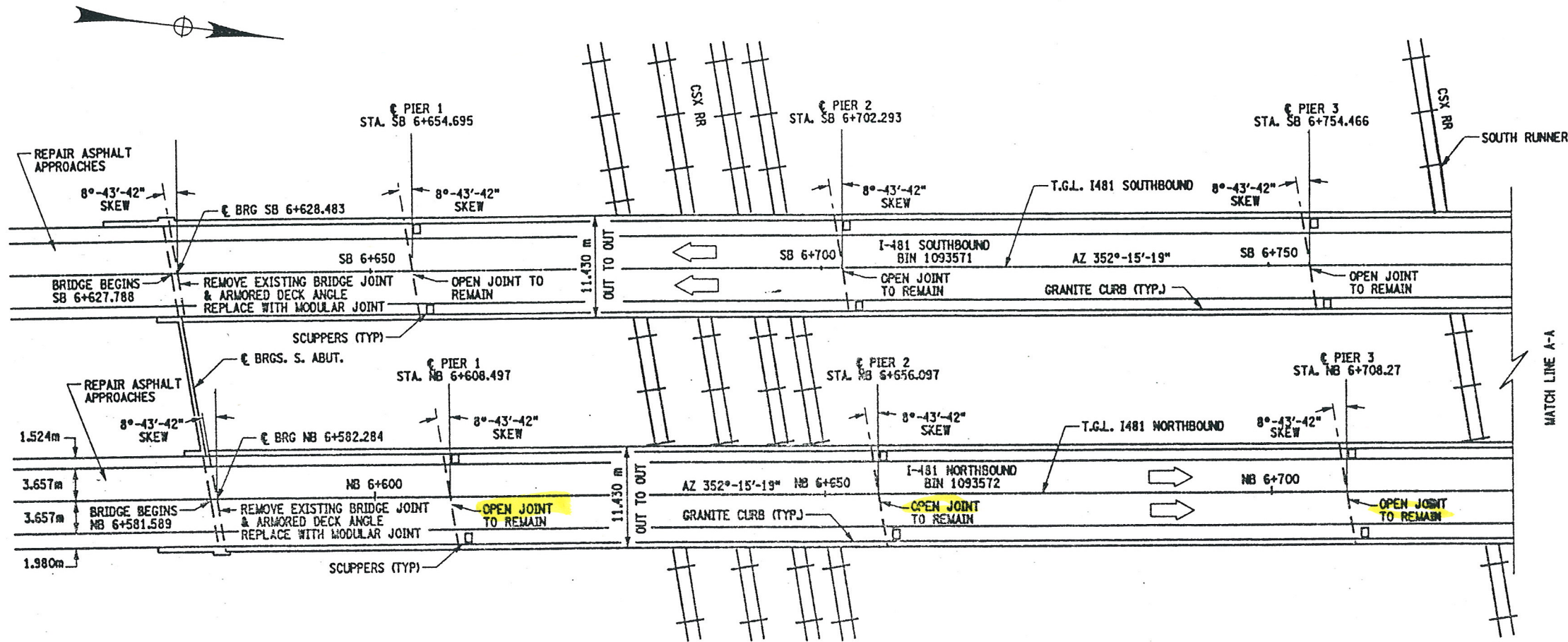


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

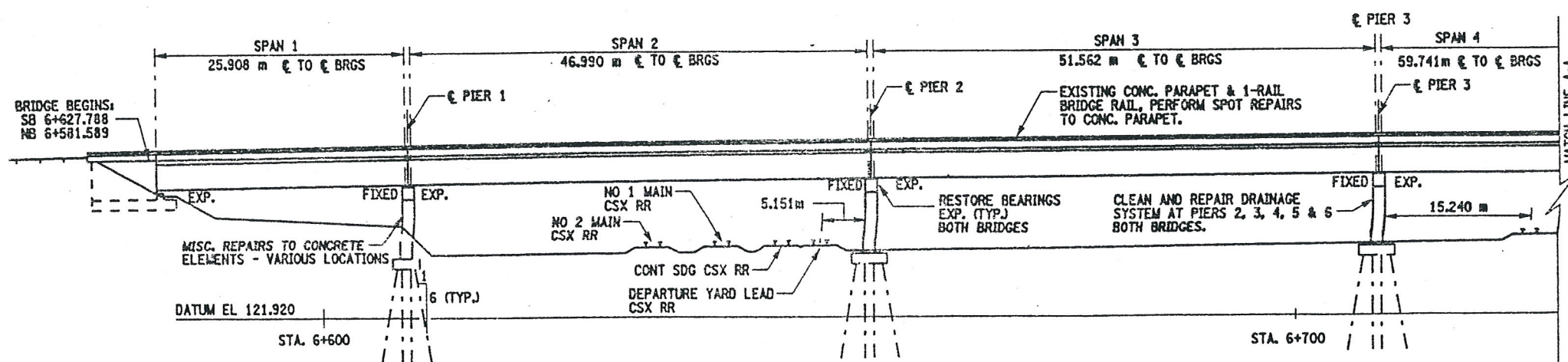
FILENAME	REGION	DATE	DRAWING NO.
305613.1A	3	10/02	QE-4C



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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

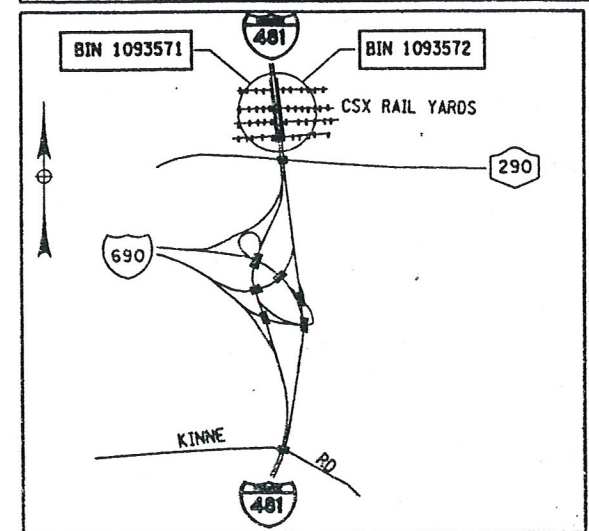


PLAN  
SCALE 1:300



ELEVATION  
SCALE 1:300

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	284	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		



LOCATION MAP  
NOT TO SCALE

NOTES:

SEE DWG. GP17-2 FOR WORK TO BE DONE ON BIN 1093571  
AND DWG. GP17-3 FOR WORK TO BE DONE ON BIN 1093572.  
REFER TO DWG. NO. JT-3 AND JT-4 FOR BRIDGE JOINT INFORMATION.  
ELECTRIC UTILITY IN THE VICINITY OF BRIDGES. SEE  
INFORMATION AVAILABLE TO BIDDERS FOR ADDITIONAL INFORMATION.

BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND  
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 OVER CSX RAILROAD YARD PLAN AND ELEVATION 1 OF 4	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.G1A	REGION 3
DATE 10/02	DRAWING NO. GP17-1



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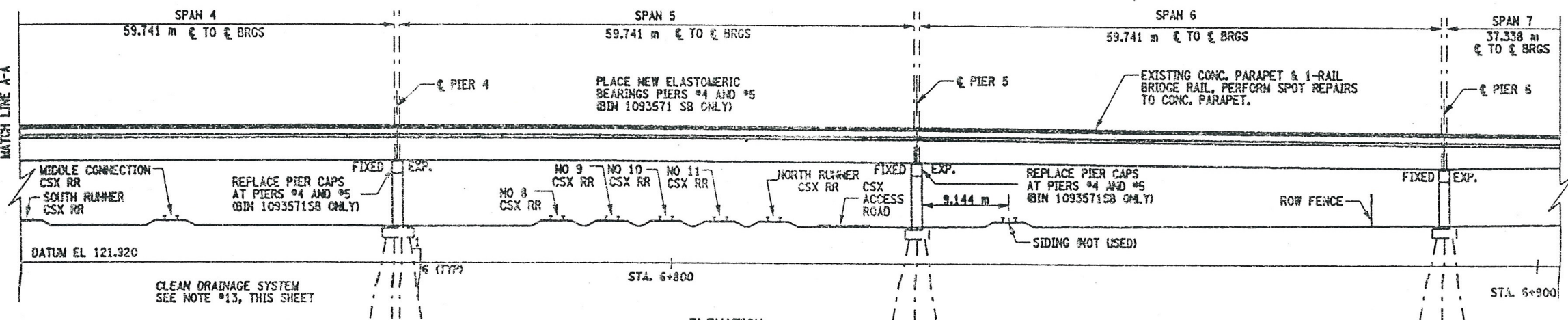
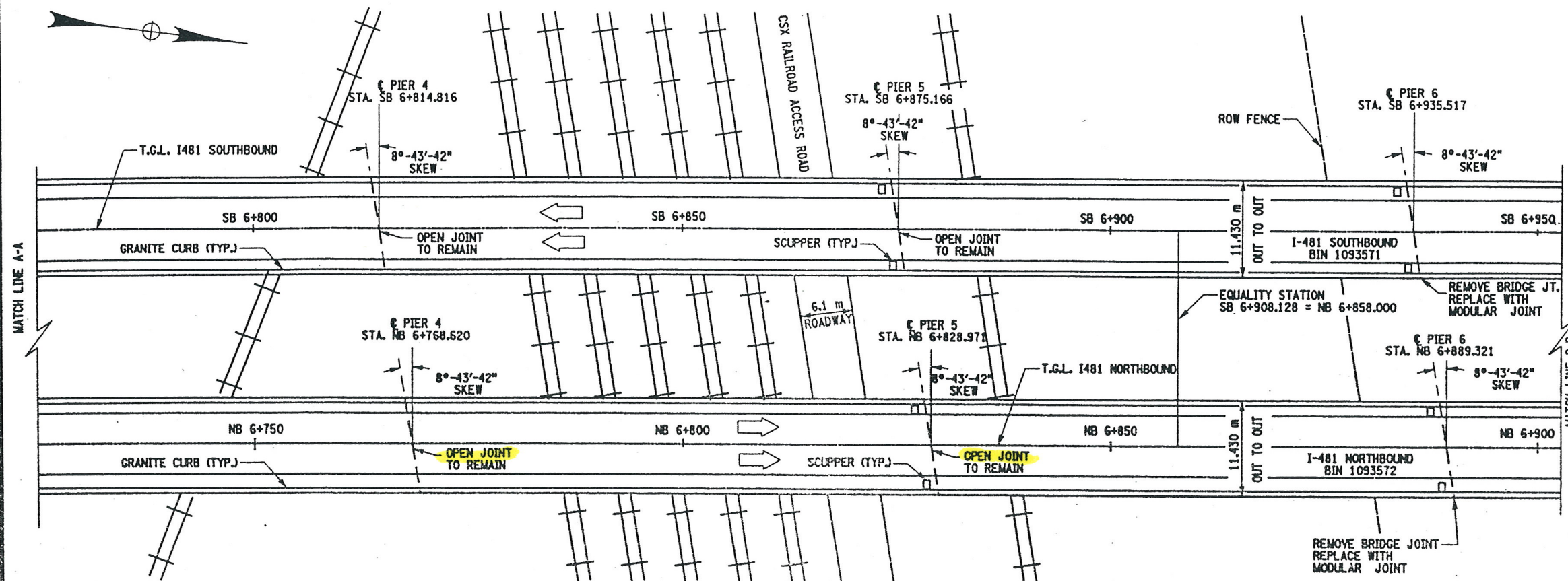
ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR



TRACK	VERTICAL CLEARANCE	HORIZONTAL CLEARANCE
	METERS	METERS
NO 2 MAIN	7.468	16.000
NO 1 MAIN	7.285	NA
CONT SDG	7.498	NA
DEPARTURE YARD LEAD	7.559	5.151
SOUTH RUNNER	8.169	15.240
MIDDLE CONNECTION	8.077	NA
NO 8	8.077	17.891
NO 9	8.077	NA
NO 10	8.077	NA
NO 11	8.159	NA
NORTH RUNNER	8.169	NA
SIDING	NA	9.144

NOTE: ALL DIMENSIONS SHOWN IN THIS TABLE ARE FIELD MEASUREMENTS.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	285	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

WORK TO BE DONE ON BIN 1093571 SB; (NOT NECESSARILY IN THIS ORDER)

1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION, (RR TRAFFIC CONTROL REQUIRED).
2. REMOVE EXISTING BRIDGE JOINTS AT THE BEGINNING ABUTMENT (TO INCLUDE ARMORING DECK ANGLE) AND PIERS #6, #7, #8, #10, #11, #12, #13 AND #14.
3. INSTALL NEW BRIDGE JOINTS, MODULAR ONE-CELL JOINT SYSTEM.
4. INSTALL NEW COMPRESSION SEALS AT THE PARAPET SECTIONS OF THE EXISTING OPEN JOINTS, PIERS #1, #2, #3, #4, #5 & #9. REPAIR EXISTING CONCRETE PARAPETS, OPEN JOINTS TO REMAIN.
5. REMOVE EXISTING ARMORING DECK ANGLE, AT END ABUTMENT.
6. REPAIR THE DECK AREA, WHERE ARMORING ANGLE WAS REMOVED.
7. PERFORM MINOR REPAIRS TO ASPHALT APPROACHES.
8. REPAIR THE CONCRETE ELEMENTS (I.E. PIER CAPS, PIER COLUMNS AND PIER PEDESTALS).
9. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDER EXTENDED BEARINGS).
10. REMOVE PIER CAP #4 AND #5, TO INCLUDE PEDESTALS AND BEARINGS.
11. CONSTRUCT NEW PIER CAPS AND PEDESTALS AT PIERS #4 AND #5.
12. PLACE NEW BEARINGS AT PIERS #4 & #5, (ELASTOMERIC BEARINGS).
13. CLEAN AND MODIFY EXISTING CLOSED DRAINAGE SYSTEM AT PIERS #1, #2, #3, #4, #5 AND #9.
14. INSTALL SCUPPER DOWNSPOUT EXTENSIONS AT EXISTING SCUPPERS, SPANS #7 THRU #14.
15. PERFORM DRAINAGE IMPROVEMENTS AT RR YARD.
16. REPAIR EXISTING CONCRETE PARAPETS.

BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND  
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
PLAN AND ELEVATION  
2 OF 4



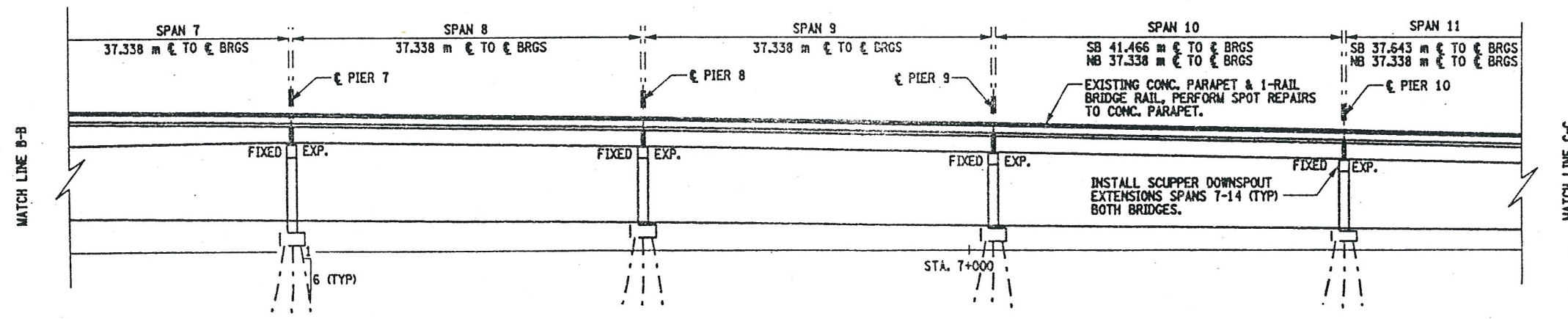
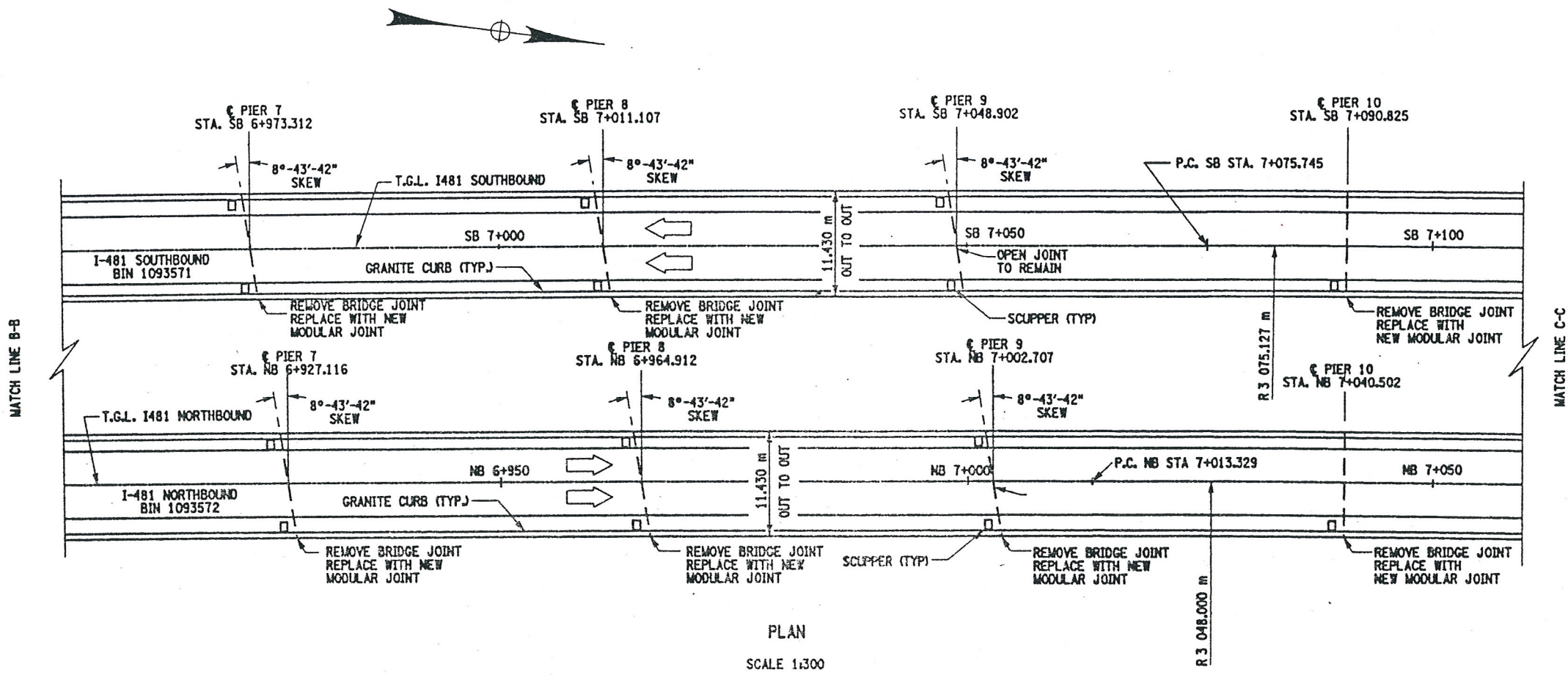
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. GP17-2
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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	286	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		



CURVE DATA	
SOUTHBOUND	NORTHBOUND
P.C.=7+075.745	P.C.=7+013.329
Δ=7°-04'-13"	Δ=7°-04'-13"
R=3075.127	R=3048.000
L=379.470	L=376.122
T=189.976	T=188.300

- WORK TO BE DONE ON BIN 1093572, NB (NOT NECESSARILY IN THIS ORDER)
1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION, (RR TRAFFIC CONTROL REQUIRED).
  2. REMOVE EXISTING BRIDGE JOINT AT BEGINNING ABUTMENT AND PIERS #6, #7, #8, #9, #10, #11, #12, #13 AND #14.
  3. INSTALL NEW BRIDGE JOINTS, (MODULAR ONE-CELL JOINTS).
  4. INSTALL NEW COMPRESSION SEALS AT THE PARAPET SECTIONS OF THE EXISTING OPEN JOINTS AT PIERS #1, #2, #3, #4 AND #5.
  5. REPAIR EXISTING CONCRETE PARAPETS.
  6. PERFORM REBAR EXPOSURE IN AREAS SHOWN ON PLANS, OR A.O.B.E. TO REPLACE ASPHALT PATCHES, (SPOT REPAIRS TO BRIDGE DECK).
  7. PLACE SLAB RECONSTRUCTION CONCRETE.
  8. REMOVE EXISTING ARMORING DECK ANGLE, AT END ABUTMENT.
  9. REPAIR THE BRIDGE DECK AREA AT THE END ABUTMENT, WHERE THE ARMORING DECK ANGLE WAS REMOVED.
  10. PERFORM MINOR REPAIRS TO ASPHALT APPROACHES.
  11. REPAIR CONCRETE ELEMENTS, (PIER CAPS, COLUMNS AND PEDESTALS).
  12. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDER EXTENDED BEARINGS).
  13. CLEAN AND MODIFY EXISTING CLOSED DRAINAGE SYSTEMS AT PIERS #1, #2, #3, #4, #5 AND #6.
  14. INSTALL SCUPPER DOWNSPOUT EXTENSIONS AT EXISTING SCUPPERS, SPANS #7 THRU #14.
  15. PERFORM DRAINAGE IMPROVEMENTS AT RR YARD.

BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND  
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE
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INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
PLAN AND ELEVATION  
3 OF 4

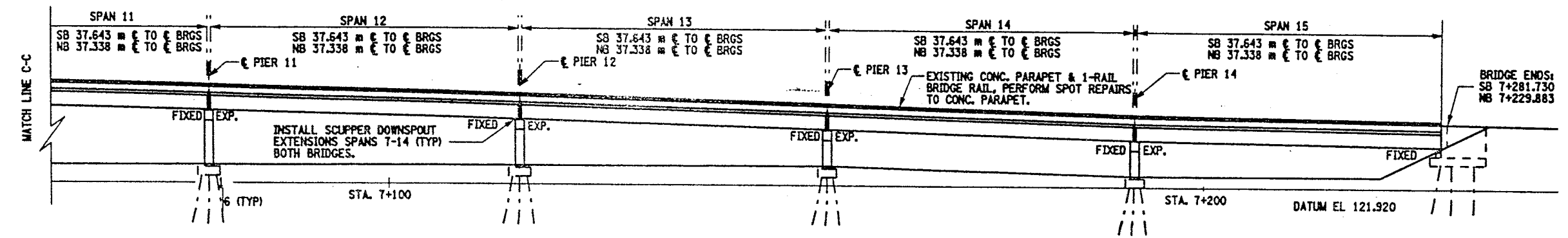
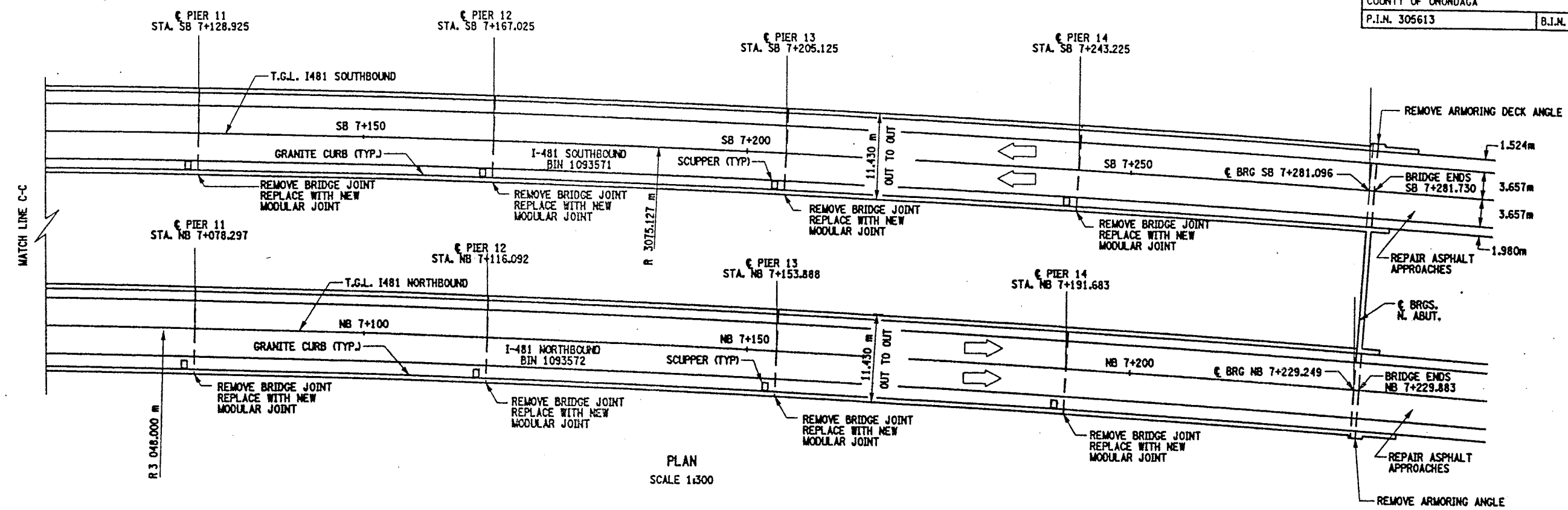
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. GP17-3
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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	287	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		



BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
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SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
PLAN AND ELEVATION  
4 OF 4

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

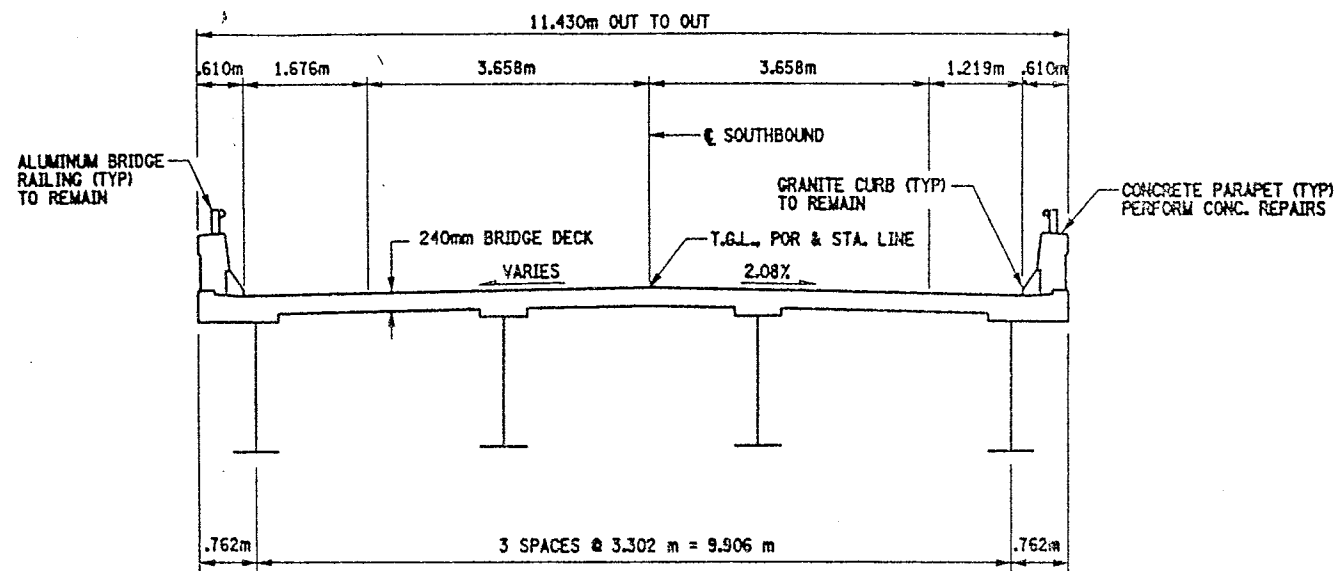


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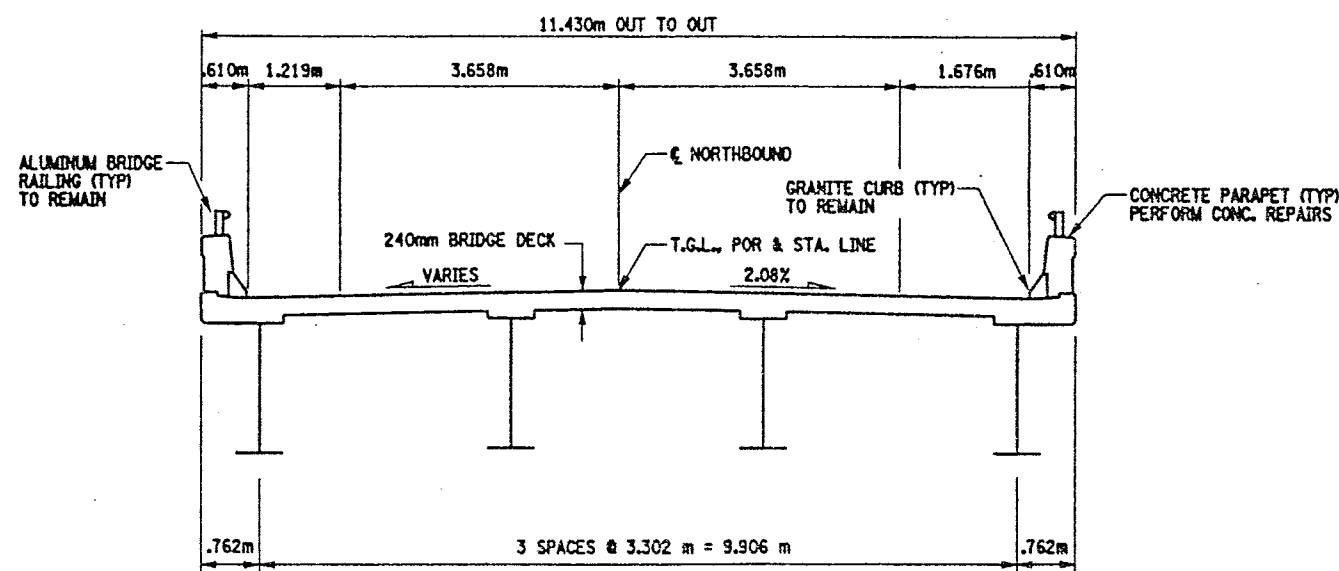


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JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	288	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		



SOUTHBOUND  
BIN 1093571



NORTHBOUND  
BIN 1093572

TYPICAL BRIDGE SECTIONS

NOTES:

ORIGINAL BRIDGE DECK 203mm MONOLITHIC SLAB.  
38mm CONCRETE OVERLAY ADDED LATER.

SEE ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND  
CONTRACT PLANS D251436.

BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

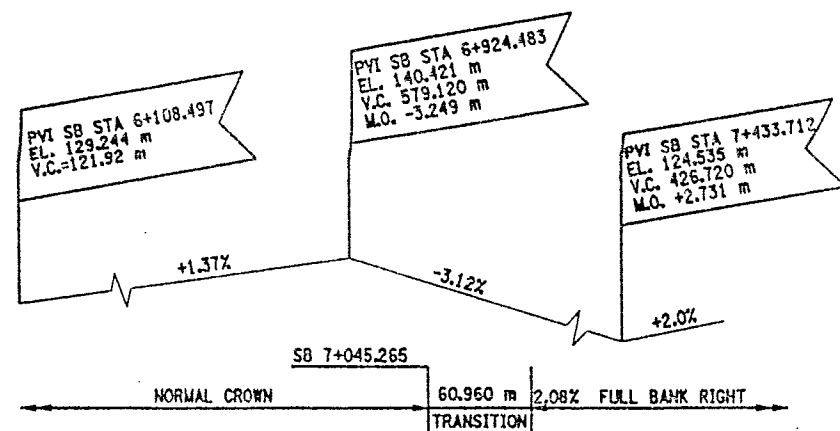
SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
TYPICAL BRIDGE SECTION  
AND PROFILES

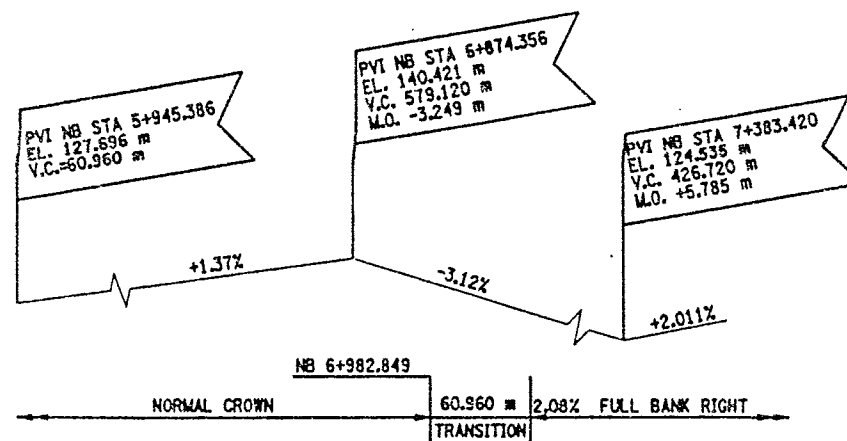
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION



FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. TS17-1
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PROFILE SOUTHBOUND  
NOT TO SCALE



PROFILE NORTHBOUND  
NOT TO SCALE

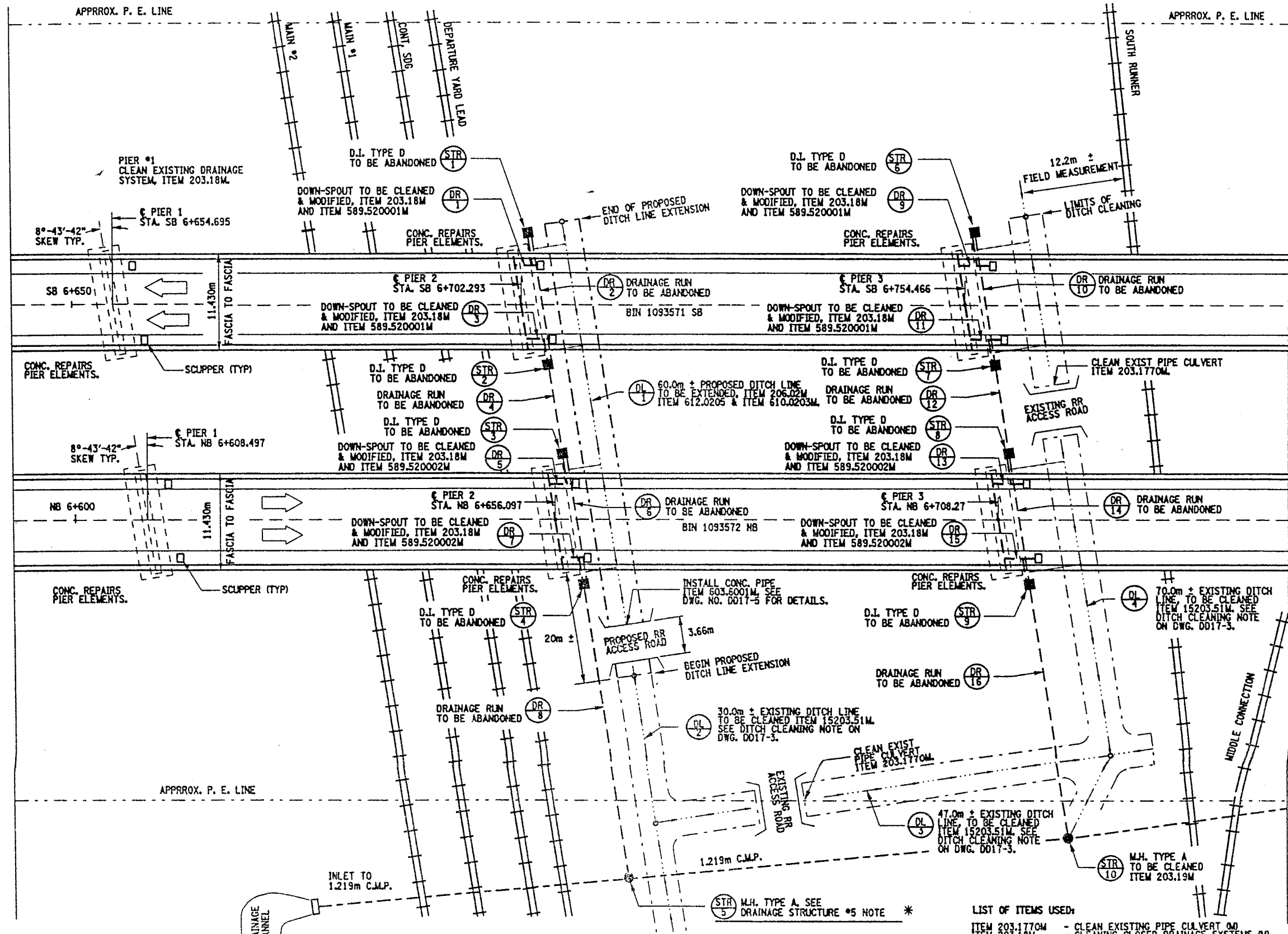


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FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	289	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

**GENERAL NOTES:**  
THE PROPOSED DRAINAGE WORK IS BASED ON DRAINAGE INFORMATION FROM ORIGINAL CONTRACT F.I.S.H. 70-7. REFER TO ORIGINAL CONTRACT PLANS FOR DETAILS OF EXISTING DRAINAGE STRUCTURES.  
THE CONTRACTOR SHALL VERIFY THIS INFORMATION WITH FIELD SITE INSPECTIONS.  
CONTRACTOR SHALL NOTE THAT ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE CLEANED UNDER ITEMS 203.18M OR 203.19M.  
THE EXACT PLACEMENT OF THE PROPOSED RR ACCESS ROAD (CONC. PIPE CULVERT) SHALL BE AT THE DISCRETION OF THE ENGINEER.  
NO EXISTING SURVEY IS AVAILABLE, ITEM 625.01M "SURVEY & STAKEOUT" IS INCLUDED IN CONTRACT FOR ALL NECESSARY WORK, AS DIRECTED BY ENGINEER.  
SEE DRAWING NO. DD17-3 FOR TABLE OF DRAINAGE WORK AND DITCH LINE WORK, TO BE DONE.  
SEE DWG. NO. DD17-4 FOR DOWN-SPOUT MODIFICATION DETAILS.  
SEE DWG. NO. GN-1 FOR SERIALIZED ITEM NOTES.  
SEE DWG. NO. DD17-5 FOR PROPOSED CONC. PIPE AND MISCEL. DETAILS.  
**WORK TO BE DONE:**  
PIER #1 - CLEAN EXISTING DRAINAGE SYSTEM. PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION.  
PIER #2 - DRAINAGE STRUCTURES AND DRAINAGE RUNS TO BE ABANDONED. MODIFY EXISTING DOWN-SPOUTS (REFER TO DRAWING NO. DD17-4 FOR DETAILS). CLEAN THE REMAINING DRAINAGE SYSTEM. THIS WORK SHALL INCLUDE EXTENSION OF THE EXISTING DITCH LINE AND INSTALLATION OF A CULVERT PIPE. ALSO CLEANING AND RESHAPING THE EXISTING DITCH LINE. PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION.  
PIER #3 - DRAINAGE STRUCTURES AND DRAINAGE RUNS TO BE ABANDONED. MODIFY EXISTING DOWN-SPOUTS (REFER TO DRAWING NO. DD17-4 FOR DETAILS). CLEAN THE REMAINING DRAINAGE SYSTEM. THIS WORK SHALL ALSO INCLUDE CLEANING THE EXISTING DITCH LINE AND CLEANING EXISTING CULVERT PIPE. PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION.  
PIER #4 - CLEAN EXISTING DRAINAGE SYSTEM TO INCLUDE ANY REPAIRS TO DRAINAGE STRUCTURES. NORTH BOUND, PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION. SOUTH BOUND, REPLACE PIER CAP.  
PIER #5 - CLEAN EXISTING DRAINAGE SYSTEM TO INCLUDE ANY REPAIRS TO DRAINAGE STRUCTURES AND INSTALLATION OF A NEW OUTLET SECTION (305mm RCCP). NORTH BOUND, PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION. SOUTH BOUND, REPLACE PIER CAP.  
PIER #6 (NB ONLY) - DRAINAGE STRUCTURES AND DRAINAGE RUNS TO BE ABANDONED. MODIFY EXISTING DOWN-SPOUTS (REFER TO DRAWING NO. DD17-4 FOR DETAILS). CLEAN REMAINING DRAINAGE SYSTEM. PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION. CONSTRUCT A SWALE TO DIRECT RUNOFF AWAY FROM PIER AND RR PROPERTY.  
PIER #9 (SB ONLY) - CLEAN EXISTING DRAINAGE SYSTEM.  
SEE DRAWING NO. GP17-2 AND GP17-3 FOR COMPLETE LISTING OF WORK TO BE DONE.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED			
AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 OVER CSX RAILROAD YARD DRAINAGE DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. 0017-1



\* DRAINAGE STRUCTURE #5 NOTE:  
ON FIELD TRIPS BY DESIGN STAFF  
THIS STRUCTURE COULD NOT BE  
LOCATED. IT IS ASSURED THAT  
THIS STRUCTURE HAS BEEN REMOVED.

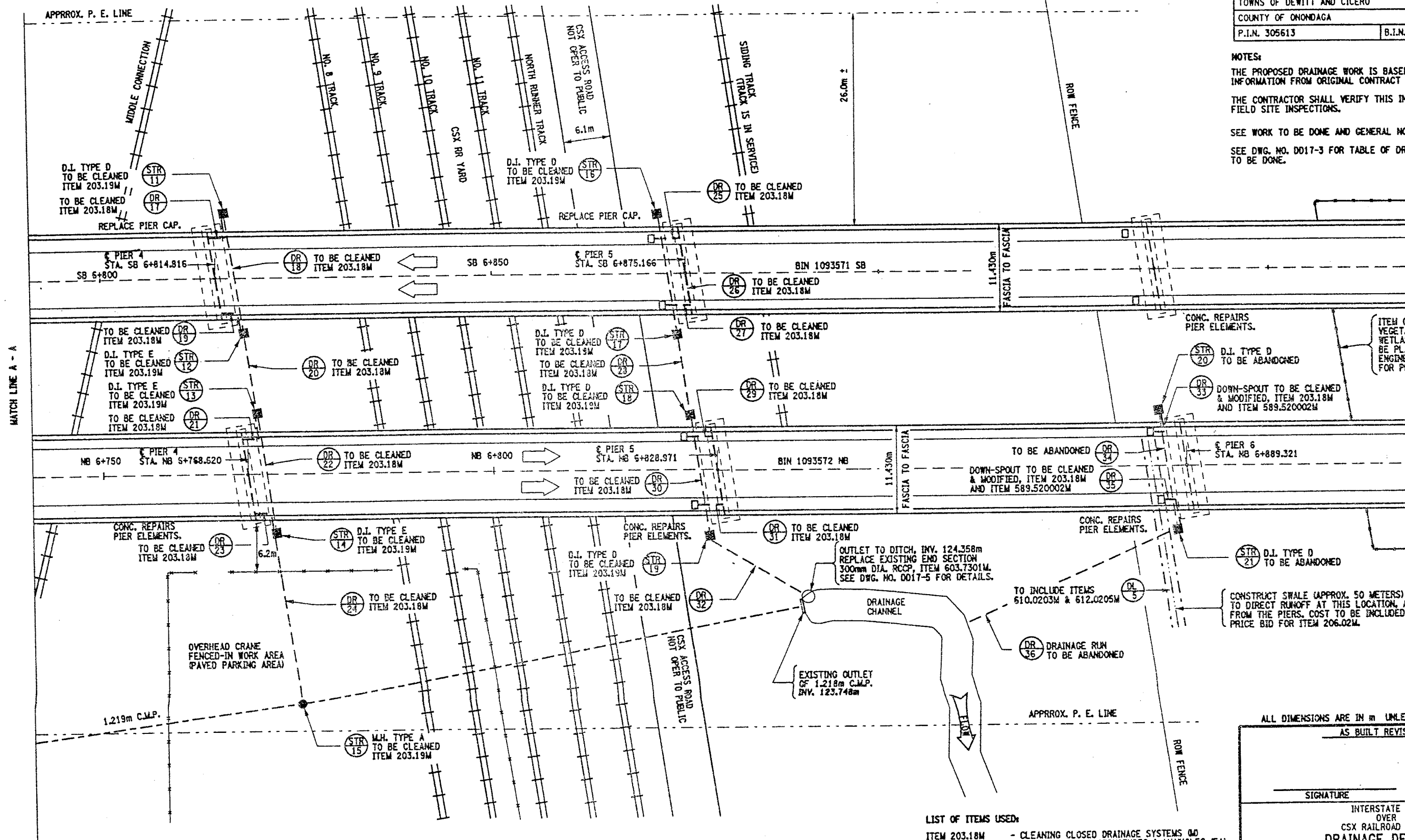
PLAN VIEW  
NOT TO SCALE

- LIST OF ITEMS USED:
- ITEM 203.1770M - CLEAN EXISTING PIPE CULVERT (M)
  - ITEM 203.18M - CLEANING CLOSED DRAINAGE SYSTEMS (M)
  - ITEM 203.19M - CLEAN DRAINAGE STRUCTURES & MANHOLES (M)
  - ITEM 15203.51M - GRADING, CLEANING & RESHAPING EXIST DITCHES (M)
  - ITEM 206.02M - TRENCH AND CULVERT EXCAVATION (CM)
  - ITEM 589.520001M - REMOVAL OF EXISTING STEEL (SA)
  - ITEM 589.520002M - REMOVAL OF EXISTING STEEL (SA)
  - ITEM 603.8001M - REIN. CONC. PIPE, CLASS III, 300mm (M)
  - ITEM 610.0203M - ESTABLISH TURF (SM)
  - ITEM 625.01M - EROSION CONTROL MATERIAL (SM)
  - ITEM 625.01M - SURVEY & STAKEOUT (LS)



FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	290	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

NOTES:  
 THE PROPOSED DRAINAGE WORK IS BASED ON DRAINAGE INFORMATION FROM ORIGINAL CONTRACT F.I.S.H. TO-7.  
 THE CONTRACTOR SHALL VERIFY THIS INFORMATION WITH FIELD SITE INSPECTIONS.  
 SEE WORK TO BE DONE AND GENERAL NOTES ON DWG. NO. D017-1.  
 SEE DWG. NO. D017-3 FOR TABLE OF DRAINAGE WORK TO BE DONE.



PLAN VIEW  
NOT TO SCALE

LIST OF ITEMS USED:

- ITEM 203.18M - CLEANING CLOSED DRAINAGE SYSTEMS (Q)
- ITEM 203.19M - CLEAN DRAINAGE STRUCTURES & MANHOLES (EA)
- ITEM 206.02M - TRENCH AND CULVERT EXCAVATION (CM)
- ITEM 589.520002M - REMOVAL OF EXISTING STEEL (EA)
- ITEM 603.7301M - REINF. CONC. PIPE END SECTION, 300mm (EA)
- ITEM 610.0203M - ESTABLISH TURF (SM)
- ITEM 612.0205M - EROSION CONTROL MATERIAL (SM)
- ITEM 08615.0402M - TREE AND VEGETATION BARRIER (Q)

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SIGNATURE	DATE
INTERSTATE 481 OVER CSX RAILROAD YARD DRAINAGE DETAILS	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.G1A	REGION 3
DATE 10/02	DRAWING NO. D017-2



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JOB MANAGER  
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DRAINAGE RUN TABLE						
DR NO	FROM STRUCTURE	203mm C.I.P.	305mm R.C.C.P.	TO STRUCTURE	WORK TO BE DONE	REMARKS
1	B.I.N. 1093571 SB, PIER 2, WEST COLUMN	18.0m		STR. #1	ITEM 203.18W/589.520001W	CLEAN & OUTLET TO GROUND
2	STR. #1			STR. #2		TO BE ABANDONED
3	B.I.N. 1093571 SB, PIER 2, EAST COLUMN	18.0m		STR. #2	ITEM 203.18W/589.520001W	CLEAN & OUTLET TO GROUND
4	STR. #2			STR. #3		TO BE ABANDONED
5	B.I.N. 1093572 NB, PIER 2, WEST COLUMN	18.0m		STR. #3	ITEM 203.18W/589.520002W	CLEAN & OUTLET TO GROUND
6	STR. #3			STR. #4		TO BE ABANDONED
7	B.I.N. 1093572 NB, PIER 2, EAST COLUMN	18.0m		STR. #4	ITEM 203.18W/589.520002W	CLEAN & OUTLET TO GROUND
8	STR. #4			STR. #5		TO BE ABANDONED
9	B.I.N. 1093571 SB, PIER 3, WEST COLUMN	18.0m		STR. #6	ITEM 203.18W/589.520001W	CLEAN & OUTLET TO GROUND
10	STR. #6			STR. #7		TO BE ABANDONED
11	B.I.N. 1093571 SB, PIER 3, EAST COLUMN	18.0m		STR. #7	ITEM 203.18W/589.520001W	CLEAN & OUTLET TO GROUND
12	STR. #7			STR. #8		TO BE ABANDONED
13	B.I.N. 1093572 NB, PIER 3, WEST COLUMN	18.0m		STR. #8	ITEM 203.18W/589.520002W	CLEAN & OUTLET TO GROUND
14	STR. #8			STR. #9		TO BE ABANDONED
15	B.I.N. 1093572 NB, PIER 3, EAST COLUMN	18.0m		STR. #9	ITEM 203.18W/589.520002W	CLEAN & OUTLET TO GROUND
16	STR. #9			STR. #10		TO BE ABANDONED
17	B.I.N. 1093571 SB, PIER 4, WEST COLUMN	18.0m		STR. #11	ITEM 203.18W	CLEAN
18	STR. #11		14.6m	STR. #12	ITEM 203.18W	CLEAN
19	B.I.N. 1093571 SB, PIER 4, EAST COLUMN	18.0m		STR. #12	ITEM 203.18W	CLEAN
20	STR. #12		9.8m	STR. #13	ITEM 203.18W	CLEAN
21	B.I.N. 1093572 NB, PIER 4, WEST COLUMN	18.0m		STR. #13	ITEM 203.18W	CLEAN
22	STR. #13		14.6m	STR. #14	ITEM 203.18W	CLEAN
23	B.I.N. 1093572 NB, PIER 4, EAST COLUMN	18.0m		STR. #14	ITEM 203.18W	CLEAN
24	STR. #14		22.8m	STR. #15	ITEM 203.18W	CLEAN
25	B.I.N. 1093571 SB, PIER 5, WEST COLUMN	18.0m		STR. #16	ITEM 203.18W	CLEAN
26	STR. #16		13.4m	STR. #17	ITEM 203.18W	CLEAN
27	B.I.N. 1093571 SB, PIER 5, EAST COLUMN	18.0m		STR. #17	ITEM 203.18W	CLEAN
28	STR. #17		9.8m	STR. #18	ITEM 203.18W	CLEAN
29	B.I.N. 1093572 NB, PIER 5, WEST COLUMN	18.0m		STR. #18	ITEM 203.18W	CLEAN
30	STR. #18		14.6m	STR. #19	ITEM 203.18W	CLEAN
31	B.I.N. 1093572 NB, PIER 5, EAST COLUMN	18.0m		STR. #19	ITEM 203.18W	CLEAN
32	STR. #19		12.6m	TO OUTLET	ITEM 203.18W/603.7301W	CLEAN AND REPLACE END SECTION
33	B.I.N. 1093572 NB, PIER 6, WEST COLUMN	14.0m		STR. #20	ITEM 203.18W/589.520002W	CLEAN & OUTLET TO GROUND
34	STR. #20			STR. #21		TO BE ABANDONED
35	B.I.N. 1093572 NB, PIER 6, EAST COLUMN	14.0m		STR. #21	ITEM 203.18W/589.520002W	CLEAN & OUTLET TO GROUND
36	STR. #21			TO OUTLET		TO BE ABANDONED
	PIER #1 BOTH BRIDGES	64.0m				
	PIER #9 SB (ONLY)	32.0m				
EST. TOTAL OF ITEM 203.18W IS 525 METERS.						

GENERAL NOTES:

THE QUANTITIES SHOWN ARE FOR THE PURPOSE OF ESTIMATING THE PROJECT, THE CONTRACTOR SHALL VERIFY THESE QUANTITIES.

ELEVATIONS TAKEN FROM ORIGINAL CONTRACT F.I.S.H. 70-7. CONTRACTORS SHALL VERIFY ELEVATIONS.

DRAINAGE RUNS AT THE TROUGHS ARE DIVIDED AT MID-POINT OF PIER.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0259214	291	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

DRAINAGE STRUCTURE TABLE						
STR NO	LOCATION OF STRUCTURE	TYPE	EXISTING T.G.	EXISTING INV.	ITEM USED	REMARKS
1	B.I.N. 1093571 SB, PIER 2, WEST COLUMN	D.I. TYP D	125.882m	124.815m		TO BE ABANDONED
2	B.I.N. 1093571 SB, PIER 2, EAST COLUMN	D.I. TYP D	125.882m	124.724m		TO BE ABANDONED
3	B.I.N. 1093572 NB, PIER 2, WEST COLUMN	D.I. TYP D	125.882m	124.633m		TO BE ABANDONED
4	B.I.N. 1093572 NB, PIER 2, EAST COLUMN	D.I. TYP D	125.882m	124.541m		TO BE ABANDONED
5	35.4m EAST OF STRUCT. #4 OUTLET INTO 1.219m C.M.P.J	M.H. TYP A	125.882m	124.358m		NO WORK PLANNED
6	B.I.N. 1093571 SB, PIER 3, WEST COLUMN	D.I. TYP D	126.034m	124.998m		TO BE ABANDONED
7	B.I.N. 1093571 SB, PIER 3, EAST COLUMN	D.I. TYP D	126.034m	124.876m		TO BE ABANDONED
8	B.I.N. 1093572 NB, PIER 3, WEST COLUMN	D.I. TYP D	126.034m	124.705m		TO BE ABANDONED
9	B.I.N. 1093572 NB, PIER 3, EAST COLUMN	D.I. TYP D	126.034m	124.678m		TO BE ABANDONED
10	30.8m EAST OF STRUCT. #9 OUTLET INTO 1.219m C.M.P.J	M.H. TYP A	126.034m	124.571m	ITEM 203.19W	CLEAN
11	B.I.N. 1093571 SB, PIER 4, WEST COLUMN	D.I. TYP D	126.034m	125.120m	ITEM 203.19W	CLEAN
12	B.I.N. 1093571 SB, PIER 4, EAST COLUMN	D.I. TYP E	126.034m	124.876m	ITEM 203.19W	CLEAN
13	B.I.N. 1093572 NB, PIER 4, WEST COLUMN	D.I. TYP E	126.034m	124.785m	ITEM 203.19W	CLEAN
14	B.I.N. 1093572 NB, PIER 4, EAST COLUMN	D.I. TYP E	126.034m	124.693m	ITEM 203.19W	CLEAN
15	22.6m EAST OF STRUCT. #14 OUTLET INTO 1.219m C.M.P.J	M.H. TYP A	126.034m	124.541m	ITEM 203.19W	CLEAN
16	B.I.N. 1093571 SB, PIER 5, WEST COLUMN	D.I. TYP D	125.943m	124.876m	ITEM 203.19W	CLEAN
17	B.I.N. 1093571 SB, PIER 5, EAST COLUMN	D.I. TYP D	125.943m	124.785m	ITEM 203.19W	CLEAN
18	B.I.N. 1093572 NB, PIER 5, WEST COLUMN	D.I. TYP D	125.943m	124.893m	ITEM 203.19W	CLEAN
19	B.I.N. 1093572 NB, PIER 5, EAST COLUMN	D.I. TYP D	125.943m	124.571m	ITEM 203.19W	CLEAN
20	B.I.N. 1093572 NB, PIER 6, WEST COLUMN	D.I. TYP D	126.339m	125.425m		TO BE ABANDONED
21	B.I.N. 1093572 NB, PIER 6, EAST COLUMN	D.I. TYP D	126.339m	124.663m		TO BE ABANDONED
GRAND TOTAL OF 10 EACH OF ITEM 203.19W						

TABLE OF DITCH LINES			
DI NO	APPROX. LOCATION	ESTIMATED LENGTH	ITEM USED
1	PIER #2, FROM STR. 1 TO EXISTING DITCH LINE	60 METERS ±	206.02M
2	FROM PROPOSED DITCH LINE EXTENSION TO STR. 5	30 METERS ±	15203.51W
3	FROM @ PIER #2 TO @ PIER #3	47 METERS ±	15203.51W
4	FROM @ STR. 10 TO @ STR. 6	70 METERS ±	15203.51W
5	FROM @ STR. 20 TO ROW FENCE	50 METERS ±	206.02M

LIST OF ITEMS USED:

- ITEM 203.18W - CLEAN CLOSED DRAINAGE SYSTEMS (C)
- ITEM 203.19W - CLEAN DRAINAGE STRUCTURES AND MANHOLES (C)
- ITEM 15203.51W - GRADING, CLEANING & RESHAPING EXISTING DITCH (C)
- ITEM 206.02M - TRENCH & CULVERT EXCAVATION (C)
- ITEM 589.520001W - REMOVAL OF EXISTING STEEL (C)
- ITEM 589.520002W - REMOVAL OF EXISTING STEEL (C)
- ITEM 603.7301W - REINF. CONC. PIPE END SECTION (C)
- ITEM 610.0203M - ESTABLISH TURF (C)
- ITEM 612.0205M - EROSION CONTROL MATERIAL (C)

DITCH CLEANING NOTE:

IN CONJUNCTION WITH THE USE OF ITEM 15203.51W - GRADING, CLEANING & RESHAPING EXISTING DITCHES, ITEM 612.0205M - EROSION CONTROL MATERIAL AND ITEM 610.0203M - ESTABLISH TURF, SHALL ALSO BE INCORPORATED WITH ANY DITCH WORK.

ALL DIMENSIONS ARE IN M UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
TABLE OF DRAINAGE RUNS & STRUCTURES

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.  
305613AE.G1A 3 10/02 D017-3



FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	292	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

#### GENERAL NOTES:

- EXISTING INLET DOWNSPOUT, ADJACENT DRAINAGE STRUCTURES AND CONNECTING DRAINAGE RUNS AT PIER #2 NB & SB, PIER #3 NB & SB AND PIER #6 NORTHBOUND ONLY, TO BE ABANDONED.
- EXISTING DRAINAGE PIPE (DUCTILE IRON PIPE) SHALL BE CUT OFF AT LOCATION SHOWN OR AS DIRECTED BY ENGINEER, AS PER SECTION 589 OF STANDARD SPECIF. (SEE MODIFICATION NOTES).
- THE ABANDONED INLET DOWNSPOUT PIPE (THE PORTION STILL IN THE GROUND) SHALL BE CAPPED WITH A DUCTILE IRON CAP, IN A MANNER ACCEPTABLE TO THE ENGINEER. ALL COSTS SHALL BE INCLUDED IN BID PRICE FOR ITEM 576.2001M.
- THE CONTRACTOR SHALL NOTE THAT CLEANING THE DRAINAGE SYSTEM SHALL INCLUDE SCUPPERS, HOPPERS, TROUGHS AND DOWNSPOUTS. THE CLEANING OF THE DRAINAGE SYSTEM SHALL BE FROM THE BRIDGE DECK TO THE OUTLETTED DOWNSPOUTS.
- NO SHOP DRAWINGS SHALL BE REQUIRED FOR DOWNSPOUT ELBOW.
- SEE DRAWINGS NO. DD17-1 AND DD17-2 FOR MODIFICATION LOCATIONS.
- SEE DRAWING NO. DD17-3 FOR TABLE OF DRAINAGE WORK TO BE DONE.
- ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND PREVIOUS CONTRACT NUMBER D251436.
- ALL COSTS ASSOCIATED WITH THE INSTALLATION OF THE PROPOSED DOWNSPOUT ELBOW & COUPLING TO BE INCLUDED IN THE BID PRICE FOR ITEM 576.2001M.
- SEE DRAWING NO. DD17-8 FOR MISC. DRAINAGE CLEANING DETAILS AND PLAN VIEW OF SPLASH PAD WITH STONE FILL.

#### ITEM CLARIFICATION NOTE:

ITEM 570.090001M - ENVIRONMENTAL GROUND PROTECTION IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE.

BIN 1093571 SB SHALL USE ITEM 570.090001M  
BIN 1093572 NB SHALL USE ITEM 570.090002M

ITEM 572.010001M - STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED, IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE.

BIN 1093571 SB SHALL USE ITEM 572.010001M  
BIN 1093572 NB SHALL USE ITEM 572.010002M

ITEM 589.520001M - REMOVAL OF EXISTING STEEL IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE.

BIN 1093571 SB SHALL USE ITEM 589.520001M  
BIN 1093572 NB SHALL USE ITEM 589.520002M

ITEM 571.010001M - TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE, IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE.

BIN 1093571 SB SHALL USE ITEM 571.010001M  
BIN 1093572 NB SHALL USE ITEM 571.010002M

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

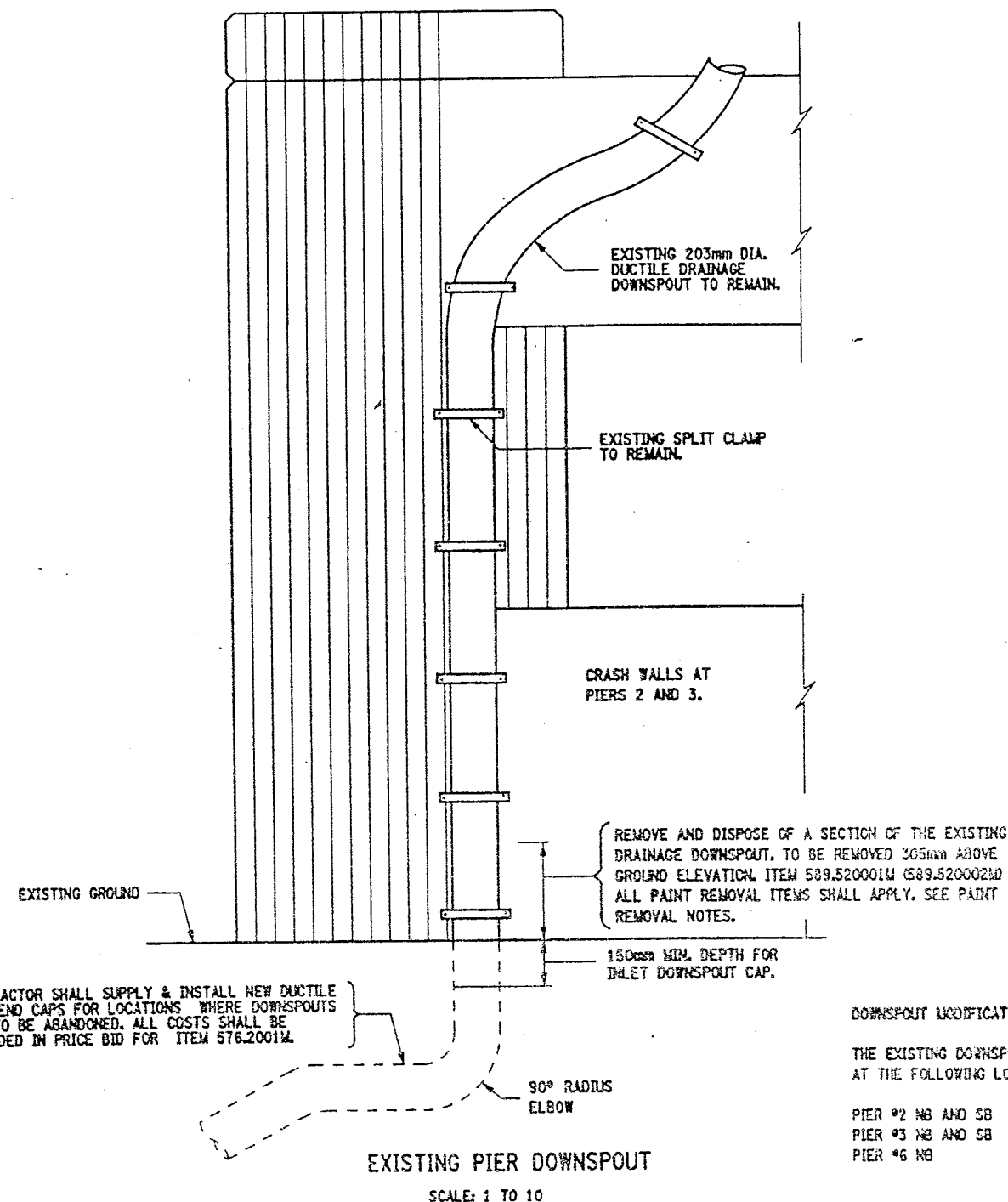
SIGNATURE DATE

INTERSTATE 481 NB AND SB  
OVER  
CSX RAILROAD YARD  
MODIFICATION OF PIER DOWNSPOUTS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.D1A	3	10/02	DD17-4



CONTRACTOR SHALL SUPPLY & INSTALL NEW DUCTILE IRON END CAPS FOR LOCATIONS WHERE DOWNSPOUTS ARE TO BE ABANDONED. ALL COSTS SHALL BE INCLUDED IN PRICE BID FOR ITEM 576.2001M.

#### PAINT REMOVAL NOTES:

PAINT REMOVAL WORK SHALL BE DONE IN ACCORDANCE WITH REQUIREMENTS OF SECTION 741 OF STANDARD SPECIF.

REMOVE EXISTING PAINT FROM SPECIFIED ELEMENTS, PRIOR TO ANY CUTTING OR WELDING.

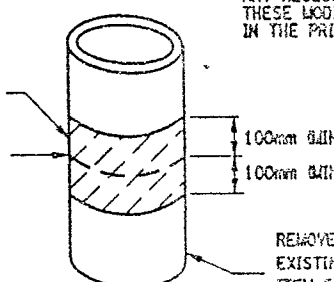
PAINT SHALL BE REMOVED TO 100mm MIN. FROM THE PROPOSED WELD/CUT LOCATION.

IN CONJUNCTION WITH THE USE OF ITEM 16570.72M - LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL, ITEM 570.090001M - ENVIRONMENTAL GROUND PROTECTION AND ITEM 571.010001M - TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE, SHALL ALSO BE INCORPORATED DURING PAINT REMOVAL OPERATIONS, (SEE ITEM CLARIFICATION NOTE, THIS SHEET).

THIS PAINT REMOVAL OPERATION SHALL BE REGARDED AS "EXEMPT SMALL GENERATOR STATUS" AND ALL PROVISIONS OF PART 372, 6 NYCRR SHALL APPLY.

REMOVE EXISTING PAINT  
ITEM 16570.72M. SEE  
PAINT REMOVAL NOTES.

LOCATION OF  
PROPOSED CUT



LIMITS OF PAINT REMOVAL  
NOT TO SCALE

#### DOWNSPOUT MODIFICATION NOTES:

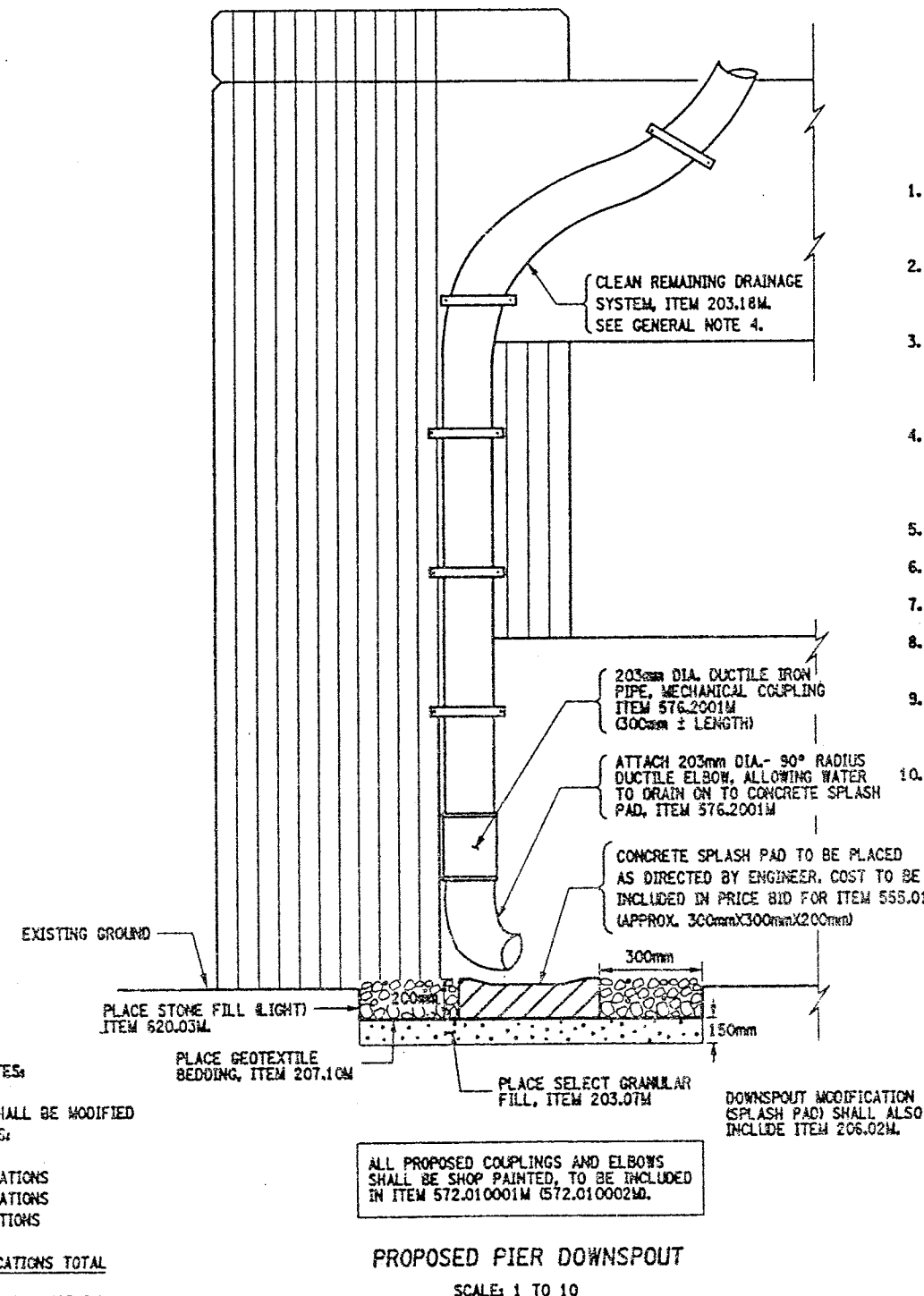
THE EXISTING DOWNSPOUTS SHALL BE MODIFIED AT THE FOLLOWING LOCATIONS:

PIER #2 NB AND SB 4 LOCATIONS  
PIER #3 NB AND SB 4 LOCATIONS  
PIER #6 NB 2 LOCATIONS

10 LOCATIONS TOTAL

ANY NECESSARY WORK NEEDED TO PERFORM THESE MODIFICATIONS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 576.2001M.

REMOVE A PORTION OF THE EXISTING DRAINAGE PIPE  
ITEM 589.520001M  
(SEE ITEM CLARIFICATION NOTE)



#### ITEMS USED:

- ITEM 203.07M - SELECT GRANULAR FILL, (CM)
- ITEM 203.18M - CLEAN CLOSED DRAINAGE SYSTEMS (m)
- ITEM 206.02M - TRENCH & CULVERT EXCAV. (CM)
- ITEM 207.10M - GEOTEXTILE BEDDING, (CM)
- ITEM 555.0105M - CONCRETE FOR STRUCTURES, CLASS "A" (CM)
- ITEM 570.090001M - ENVIRONMENTAL GROUND PROTECTION (LS)
- ITEM 570.090002M - ENVIRONMENTAL GROUND PROTECTION (LS)
- ITEM 16570.72M - LOCALIZED VACUUM CONT. CLEANING STRUCT. STEEL (CM)
- ITEM 571.010001M - TREATMENT & DISPOSAL OF PAINT REMOVAL WASTE (CM)
- ITEM 571.010002M - TREATMENT & DISPOSAL OF PAINT REMOVAL WASTE (CM)
- ITEM 572.010001M - STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED (CM)
- ITEM 572.010002M - STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED (CM)
- ITEM 589.520001M - REMOVAL OF EXISTING STEEL (EA)
- ITEM 589.520002M - REMOVAL OF EXISTING STEEL (EA)
- ITEM 576.2001M - DOWNSPOUT SYSTEM, DUCTILE IRON (m)
- ITEM 620.03M - STONE FILL, LIGHT (CM)

CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

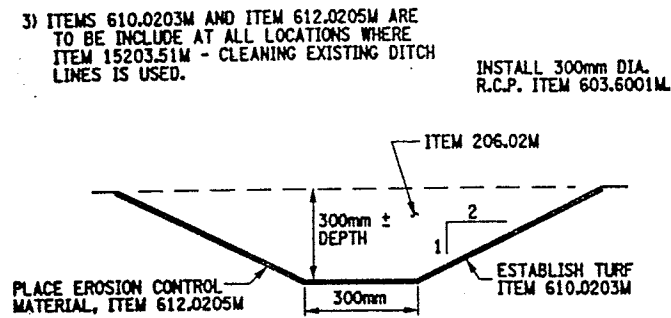
JOB MANAGER

DESIGN SUPERVISOR

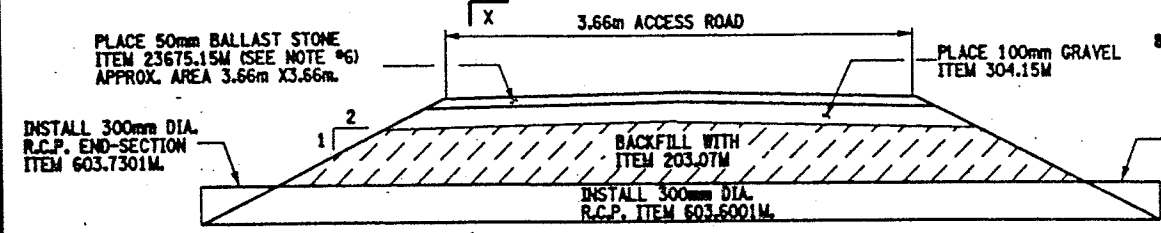


CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

**TYPICAL DITCH LINE NOTES:**  
1) SEE TABLE OF DITCH LINES DWG. NO. DD17-3.  
2) DIMENSIONS SHOWN ARE FOR ROUGH CALCULATIONS.  
3) ITEMS 610.0203M AND ITEM 612.0205M ARE TO BE INCLUDED AT ALL LOCATIONS WHERE ITEM 15203.51M - CLEANING EXISTING DITCH LINES IS USED.

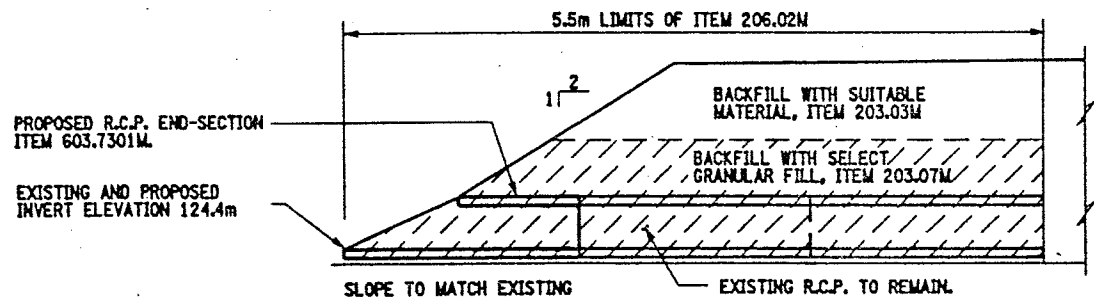


**TYPICAL DITCH LINE**  
DITCH LINE EXTENSION AT PIER #2  
NOT TO SCALE

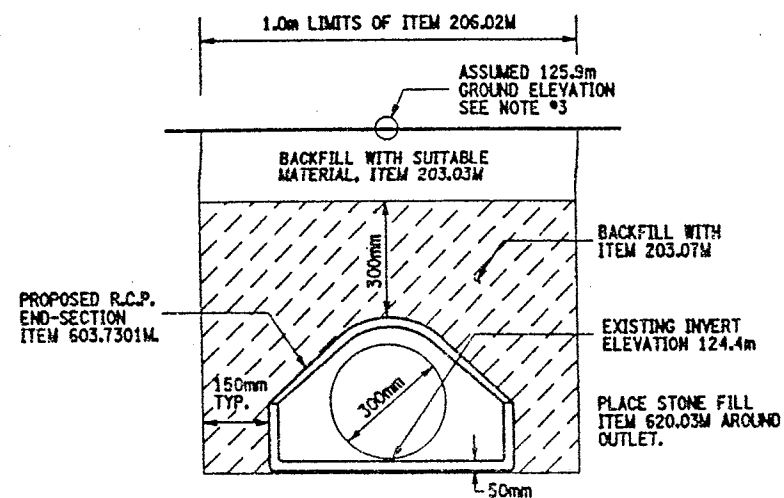


**PROPOSED CONCRETE PIPE SECTION X-X**  
NOT TO SCALE

**ELEVATION VIEW**  
NOT TO SCALE



**PROPOSED CONCRETE END-SECTION SECTION VIEW**  
DRAINAGE RUN #32  
NOT TO SCALE



**PROPOSED END-SECTION END VIEW**  
NOT TO SCALE

**END SECTION NOTES:**

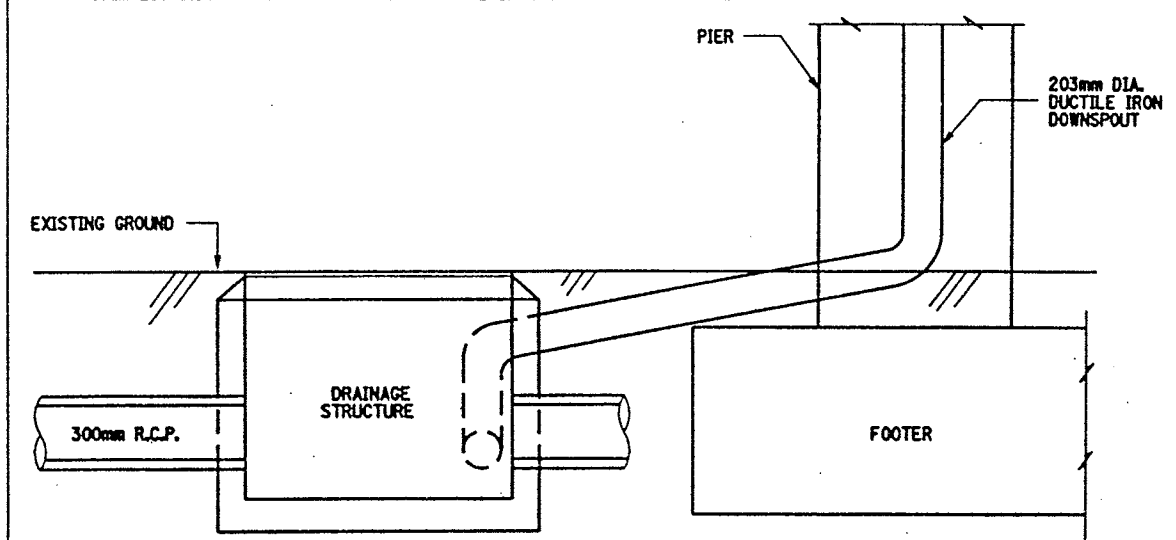
- 1) AT THE OUTLET OF DRAINAGE RUN #32 (SEE DWG. NO. DD17-2) REMOVE EXISTING R.C.P. END-SECTION AND INSTALL A NEW CONCRETE PIPE END-SECTION, ITEM 603.7301M.
- 2) ANCHORING OF THE PROPOSED END-SECTION SHALL BE AS PER SECTION 603-3.06 OF STANDARD SPECIFICATIONS AND TO THE SATISFACTION OF THE ENGINEER. COST BE INCLUDED IN THE BID PRICE FOR ITEM 603.7301M.
- 3) THE ASSUMED GROUND ELEVATION IS TAKEN FROM THE DRAINAGE STRUCTURE TABLE ON DRAWING NO. DD17-3 USING STRUCTURE #19 EXISTING T.G. ELEVATION. CONTRACTOR SHALL VERIFY ALL ELEVATIONS, ITEM 625.01M.
- 4) REFER TO NYS STANDARD SHEET M603-1.
- 5) INSTALLATION OF R.C.P. END-SECTION SHALL INCLUDE STONE FILL, ITEM 620.03M, PLACED A.O.B.E.)

**CULVERT PIPE NOTES:**

- 1) EXTEND EXISTING DITCH LINE FROM ITS CURRENT LOCATION (SEE DWG. NO. DD17-1) APPROXIMATELY 20 METERS EAST OF PIER #2. TO 5 METERS BEYOND PIER #2, WEST SIDE. THE COST TO BE PAID UNDER ITEM 206.02M, REFER TO "TABLE OF DITCH LINES" DWG. NO. DD17-3 FOR DITCH LINE NUMBER #1.
- 2) INSTALL PIPE CULVERT TO PROVIDE RAILROAD (CSX) ACCESS TO PIER 2. THE EXACT LOCATION OF THE PROPOSED CULVERT SHALL BE DETERMINED BY THE ENGINEER.
- 3) THE PROPOSED CULVERT PIPE SLOPE TO MATCH THE SLOPE OF THE EXISTING DITCH LINE. NOTE, NO EXISTING SURVEY AVAILABLE, ITEM 625.01M, "SURVEY & STAKEOUT" IS INCLUDED IN CONTRACT. NO PROPOSED INVERT ELEVATIONS GIVEN.
- 4) REFER TO NYS STANDARD SHEETS M203-4, M203-5 M203-6R1 AND M603-1.
- 5) NO LEAKAGE TEST REQUIRED.
- 6) FINISHED GRADE AT PROPOSED CULVERT INSTALLATION PLACEMENT OF ITEM 23675.15M, SHALL BE APPROVED BY CSXT DISTRICT ENGINEER. IF THIS MATERIAL DOES NOT SATISFY THE RAILROAD REQUIREMENTS FOR "APPROVED RAILROAD BALLAST STONE", THEN THE APPROPRIATE MATERIAL SHALL BE SUBSTITUTED FOR ITEM 23675.15M AT NO ADDITIONAL COST TO THE STATE.
- 7) THE CLASS & SIZE REQUIREMENTS FOR THE BALLAST STONE ITEM 23675.15M, SHALL BE DETERMINED BY THE ENGINEER.
- 8) INSTALLATION OF R.C.P. END-SECTIONS SHALL INCLUDE STONE FILL, ITEM 620.03M, PLACED AT INLET & OUTLET OF RCP END-SECTIONS, A.O.B.E.)

**ITEMS USED:**

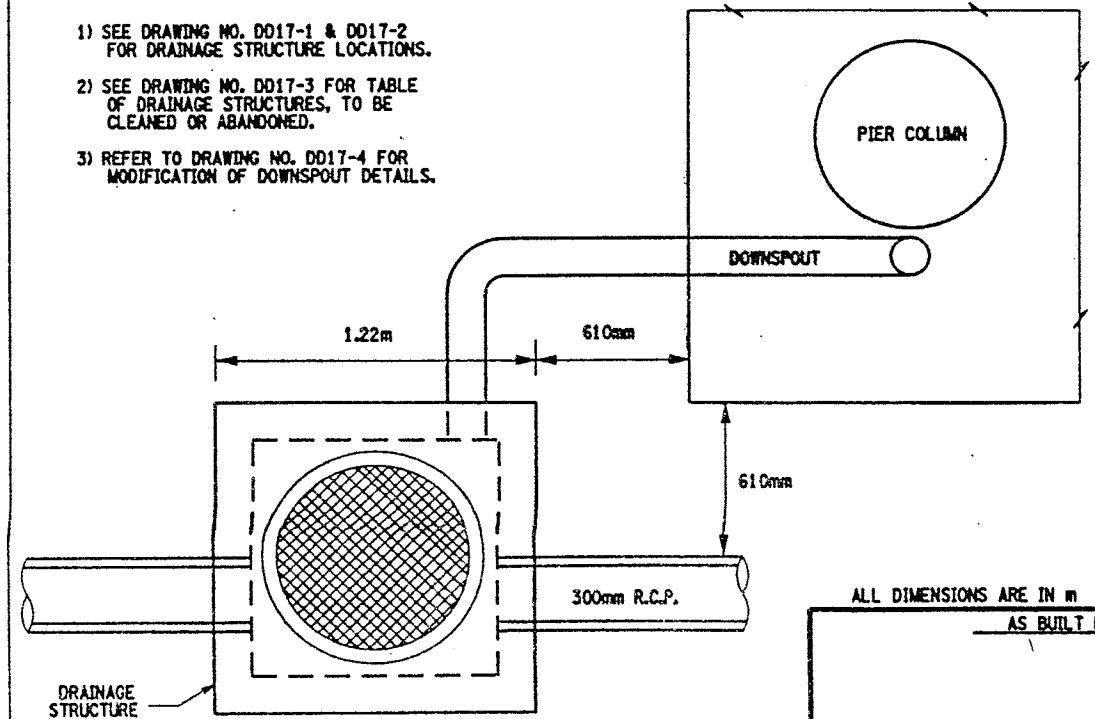
- ITEM 203.03M - EMBANKMENT IN PLACE (CM)
- ITEM 203.07M - SELECT GRANULAR FILL (CM)
- ITEM 206.02M - TRENCH & CULVERT EXCAVATION (CM)
- ITEM 304.15M - SUBBASE COURSE, OPTIONAL (CM)
- ITEM 603.6001M - REINFORCED CONCRETE PIPE CLASS III (M)
- ITEM 603.7301M - REINFORCED CONCRETE PIPE END SECTION (EACH)
- ITEM 610.0203M - ESTABLISHING TURF (SM)
- ITEM 612.0205M - EROSION CONTROL MATERIAL, CLASS II TYPE B (SM)
- ITEM 620.03M - STONE FILL, LIGHT, (CM)
- ITEM 625.01M - SURVEY & STAKEOUT (L.S.)
- ITEM 23675.15M - FURNISH AND PLACE STONE BALLAST SURFACING COURSE (MT)



**TYPICAL ELEVATION VIEW**  
DRAINAGE STRUCTURES ADJACENT TO PIERS (RR YARD).  
NOT TO SCALE

**DRAINAGE STRUCTURE NOTES:**

- 1) SEE DRAWING NO. DD17-1 & DD17-2 FOR DRAINAGE STRUCTURE LOCATIONS.
- 2) SEE DRAWING NO. DD17-3 FOR TABLE OF DRAINAGE STRUCTURES, TO BE CLEANED OR ABANDONED.
- 3) REFER TO DRAWING NO. DD17-4 FOR MODIFICATION OF DOWNSPOUT DETAILS.



**TYPICAL PLAN VIEW**  
DRAINAGE STRUCTURES ADJACENT TO PIERS (RR YARD).  
NOT TO SCALE

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	293	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
INTERSTATE 481 NB AND SB  
OVER  
CSX RAILROAD YARD  
MISCELLANEOUS DETAILS

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AE.D1A REGION 3 DATE 10/02 DRAWING NO. DD17-5

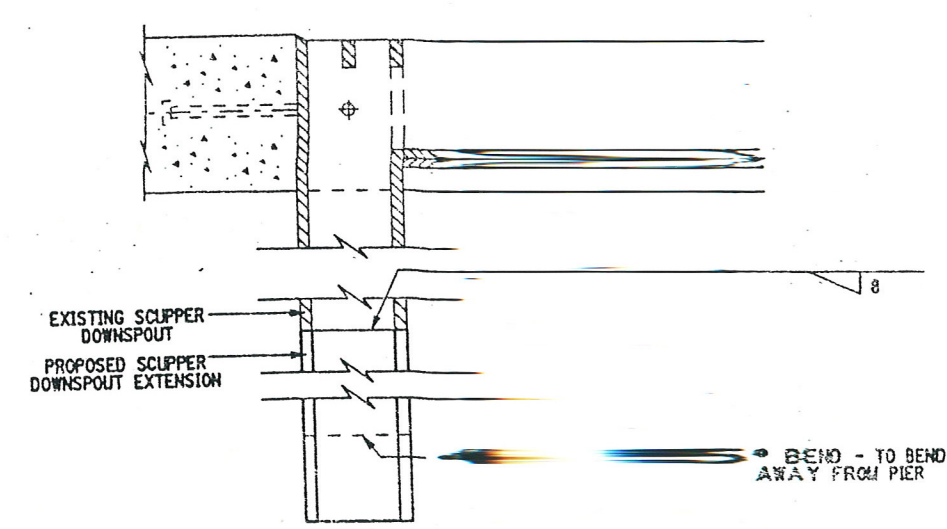
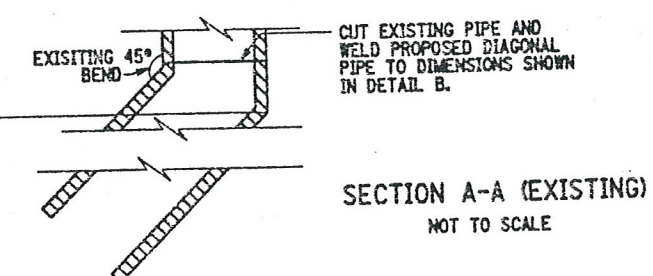
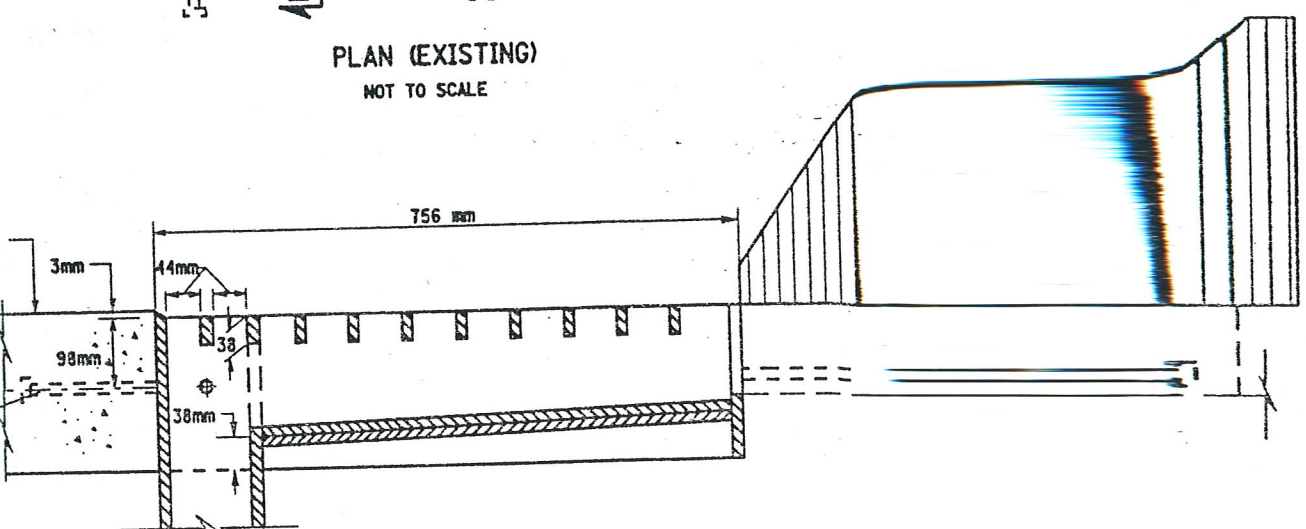
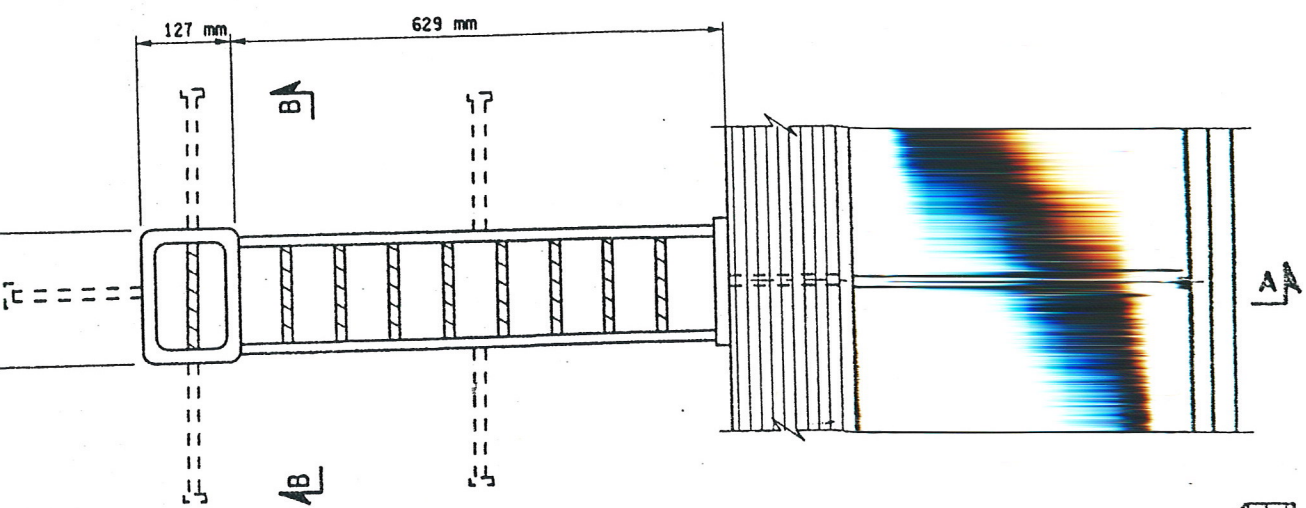


FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	294	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613		B.I.N. 1093571 & 1093572		

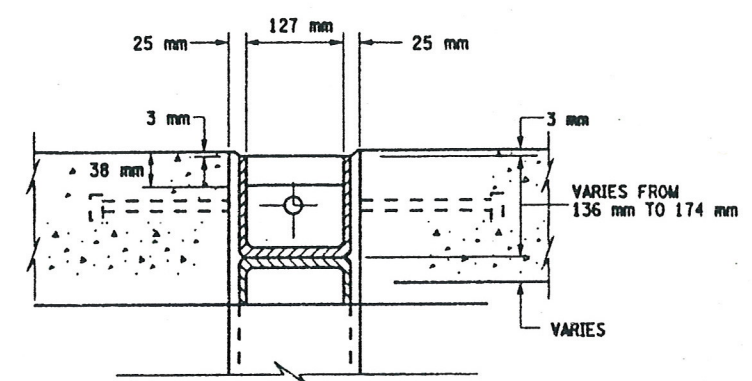
# NOTES:

1) ALL WORK AND MATERIALS NECESSARY FOR SCUPPER ADJUSTMENT AND EXTENSION SHALL BE INCLUDED IN PRICE BID FOR ITEM 590.01M.

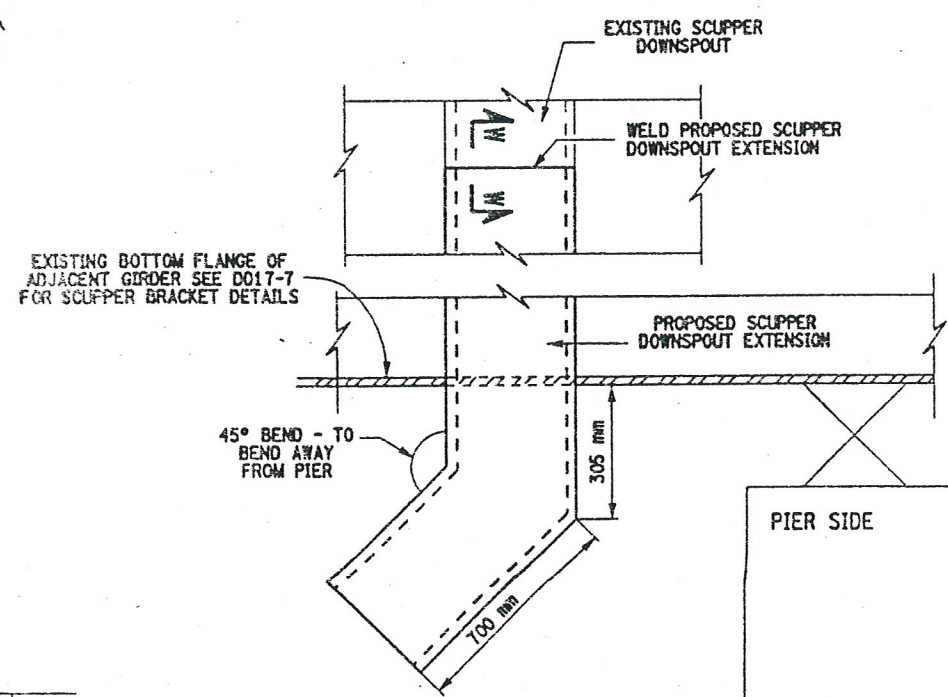
SCUPPER LOCATION TABLE			
	LOCATION	EAST CURB LINE	WEST CURB LINE
SOUTHBOUND BIN 1093571	SOUTH SIDE OF PIER 8	1	1
	SOUTH SIDE OF PIER 10	1	—
	SOUTH SIDE OF PIER 11	1	—
	SOUTH SIDE OF PIER 12	1	—
	SOUTH SIDE OF PIER 13	1	—
	SOUTH SIDE OF PIER 14	1	—
NORTHBOUND BIN 1093572	SOUTH SIDE OF PIER 8	1	1
	SOUTH SIDE OF PIER 9	1	1
	SOUTH SIDE OF PIER 10	1	—
	SOUTH SIDE OF PIER 11	1	—
	SOUTH SIDE OF PIER 12	1	—
	SOUTH SIDE OF PIER 13	1	—
TOTALS		13	3



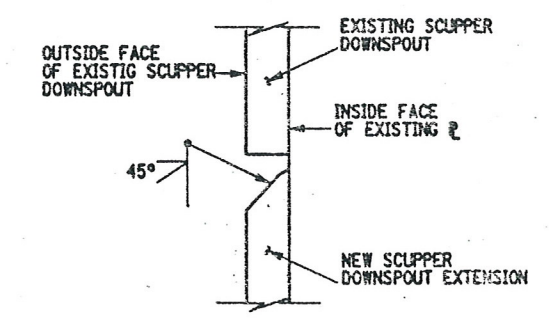
DETAIL B (PROPOSED) NOT TO SCALE



SECTION B-B NOT TO SCALE



DETAIL A (PROPOSED) NOT TO SCALE



SECTION W-W NOT TO SCALE

LIST OF ITEMS USED:  
ITEM 590.01M - VERT. ADJUSTMENT OF BRIDGE DRAINAGE DEVICES (EA)

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

INTERSTATE 481 NB AND SB  
OVER  
CSX RAILROAD YARD  
SCUPPER EXTENSIONS

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AE.DS1 REGION 3 DATE 10/02 DRAWING NO. DD17-6

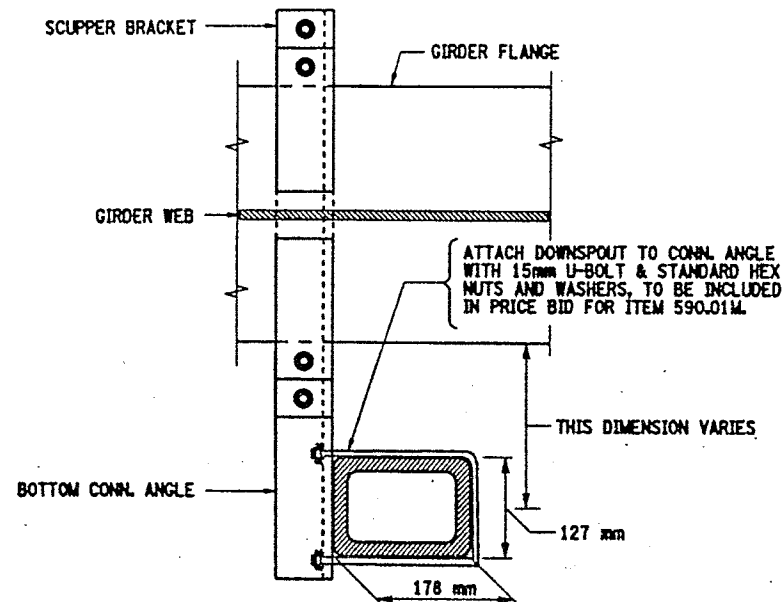


DESIGN SUPERVISOR — JOB MANAGER — DESIGNED BY — CHECKED BY — ESTIMATED BY — DRAFTED BY — CHECKED BY —

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	295	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.J.N. 1093571 & 1093572		

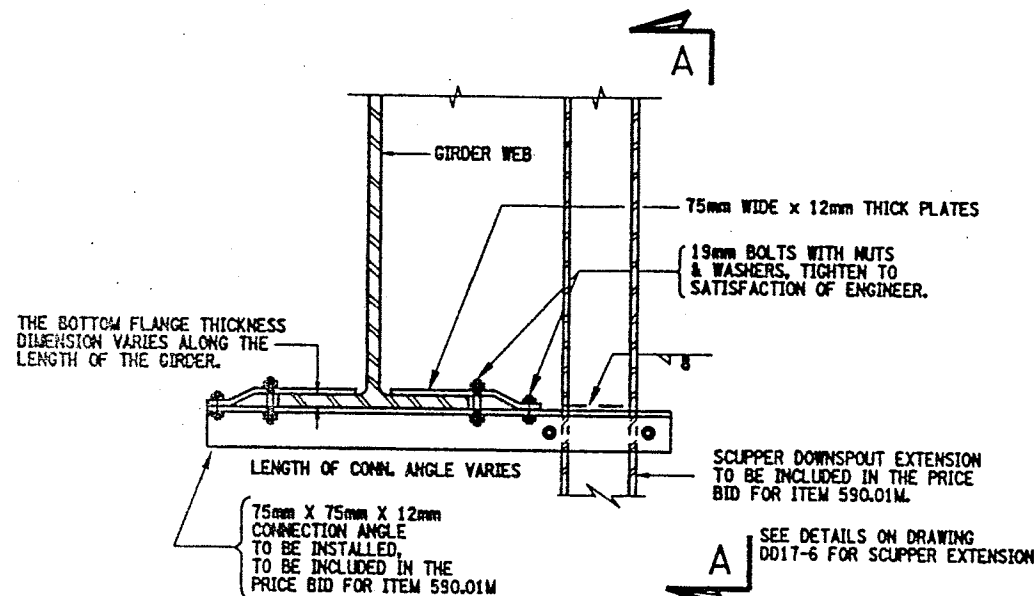
## NOTES

1. AN APPROVED TYPE OF REMOVABLE DIFFUSER SHALL BE INSTALLED ON ALL OPEN-ENDED SCUPPERS, COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 590.01M.
2. EVERY OPEN DRAINAGE SCUPPER DOWNSPOUT SHALL BE EXTENDED TO 305mm MINIMUM, BELOW THE BOTTOM FLANGE, COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 590.01M.
3. ALL PROPOSED BRACKETS AND CONNECTION HARDWARE SHALL BE FABRICATED FROM ASTM A36M STEEL.
4. ALL PROPOSED BRACKETS SHALL BE SHOP PAINTED PRIOR TO INSTALLATION COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 590.01 M DOWNSPOUT EXCLUDED.
5. NO WELDING TO, OR CUTTING OF, OR DRILLING INTO ANY STRUCTURAL STEEL WILL BE ALLOWED.
6. SCUPPER EXTENSION SHALL BE GALVANIZED IN ACCORDANCE WITH N.Y.S. STD. SPECIFICATIONS SUBSECTION 719-01.



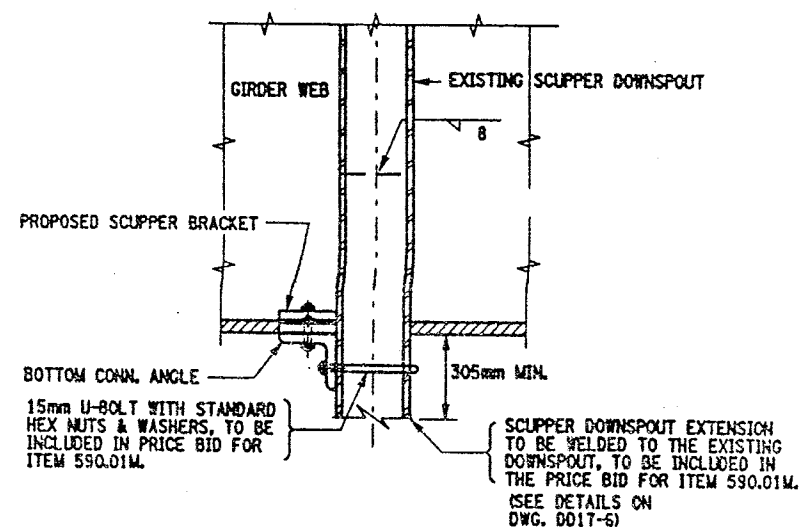
PROPOSED SCUPPER BRACKET DETAILS  
PLAN VIEW

SCALE 1:10



PROPOSED SCUPPER BRACKET DETAILS

SCALE 1:10



PROPOSED SCUPPER BRACKET DETAILS  
SECTION A-A

SCALE 1:10

LIST OF ITEMS USED:

ITEM 590.01M - VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES (EA)

ALL DIMENSIONS ARE IN #1 UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 NB AND SB  
OVER  
CSX RAILROAD YARD  
SCUPPER EXTENSIONS

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

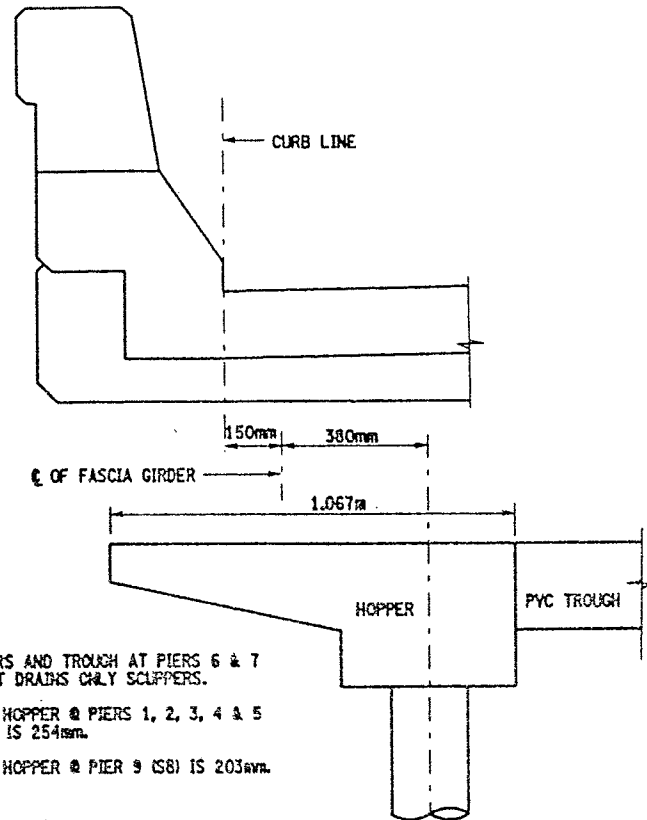


FILENAME 305613AE.DS1	REGION 3	DATE 10/02	DRAWING NO. D017-7
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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	296	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.L.N. 1093571 & 1093572	

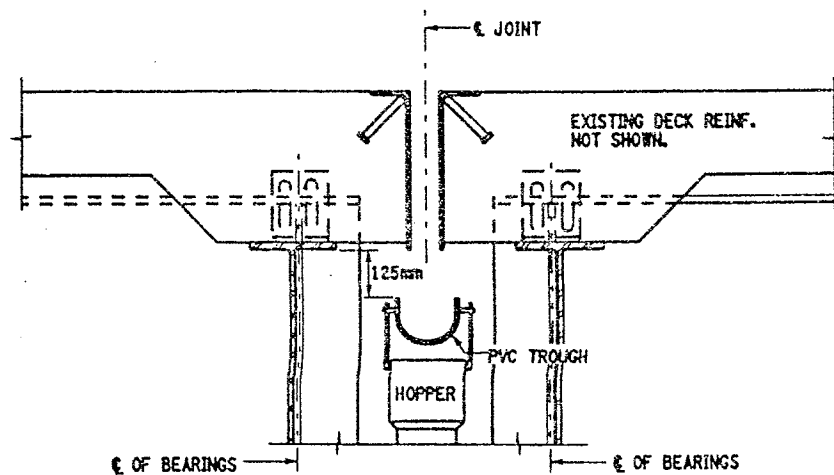


NO HOPPERS AND TROUGH AT PIERS 6 & 7  
DOWNSPOUT DRAINS ONLY SCUPPERS.

WIDTH OF HOPPER @ PIERS 1, 2, 3, 4 & 5  
(NB & SB) IS 254mm.

WIDTH OF HOPPER @ PIER 9 (SB) IS 203mm.

DRAINAGE SYSTEM HOPPER DETAIL  
ELEVATION VIEW  
NOT TO SCALE

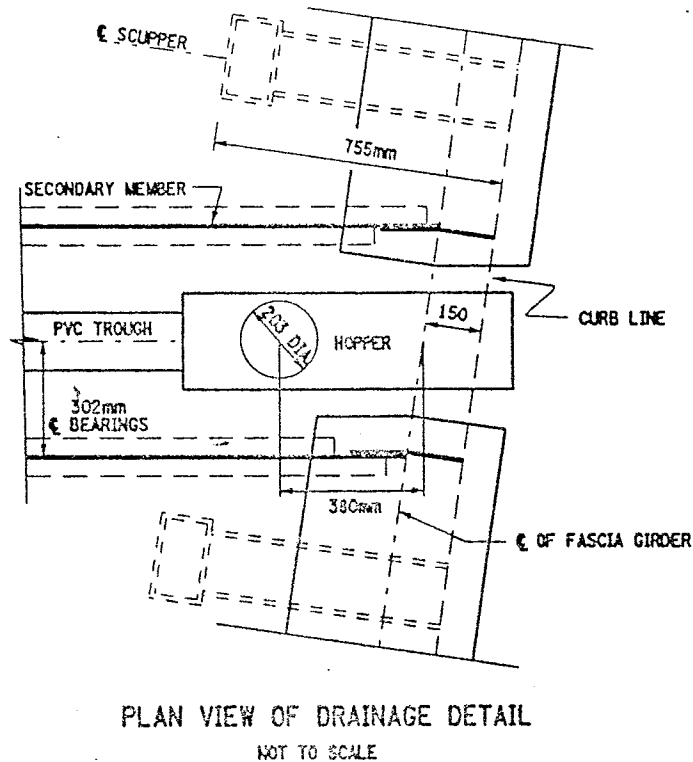


EXISTING PIER  
OPEN JOINT TYPICAL

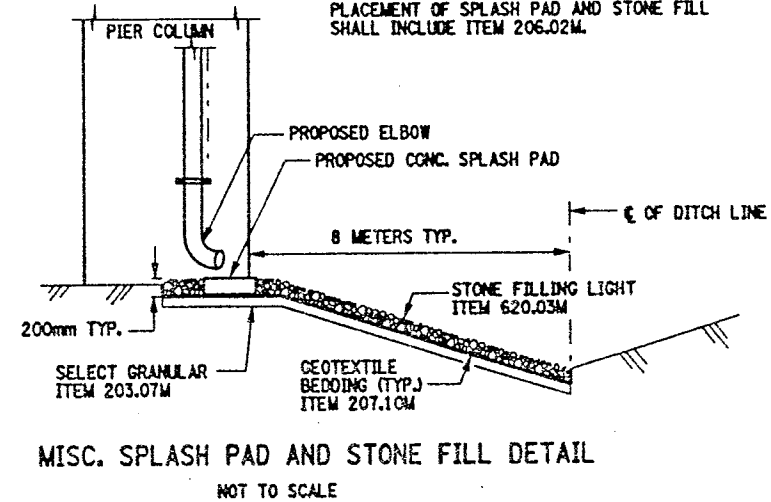
BIN 1093571 - PIERS 1, 2, 3, 4, 5 & 9  
BIN 1093572 - PIERS 1, 2, 3, 4 & 5

NOT TO SCALE

CLEAN DRAINAGE STRUCTURE  
ITEM 203.19M.



PLAN VIEW OF DRAINAGE DETAIL  
NOT TO SCALE



MISC. SPLASH PAD AND STONE FILL DETAIL  
NOT TO SCALE

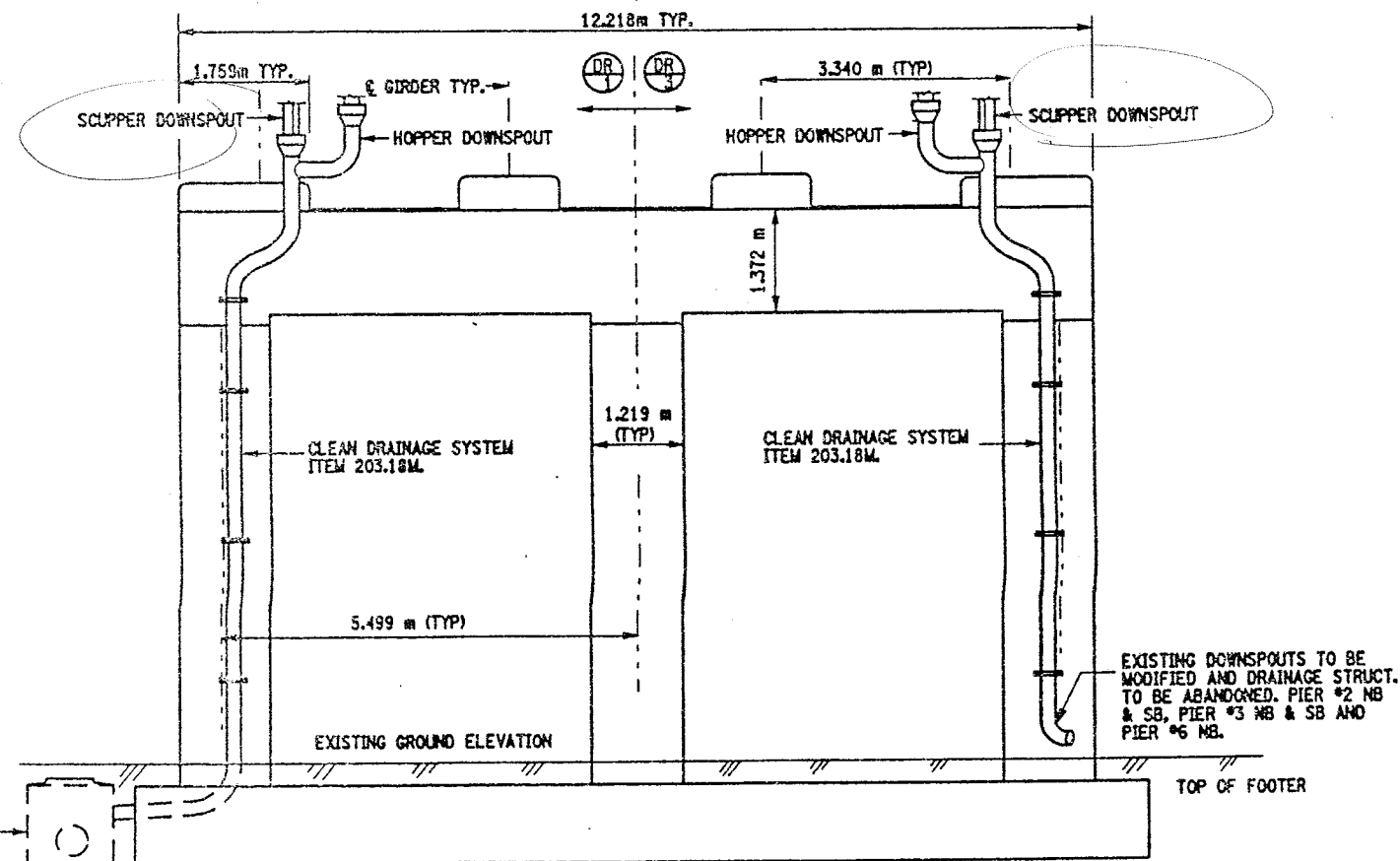
#### NOTES:

SPLASH PAD & STONE FILLING TO BE PLACED  
AT EACH MODIFIED DOWNSPOUT LOCATION  
(PIER'S 2 & 3). STONE FILL SHALL BE PLACED  
FROM SPLASH PAD TO OF DITCH LINE.

TYPICAL WIDTH OF STONE FILLING 900mm.

PROPOSED STONE FILL SLOPE TO MATCH  
EXISTING SLOPE.

PLACEMENT OF SPLASH PAD AND STONE FILL  
SHALL INCLUDE ITEM 206.02M.



EXISTING DRAINAGE STRUCTURES  
TO BE CLEANED AT PIER #4 NB  
& SB AND PIER #5 NB & SB.

TYPICAL PIER DETAIL  
NOT TO SCALE

#### CLEAN DRAINAGE SYSTEM NOTE:

THE FOLLOWING CLOSED DRAINAGE SYSTEMS SHALL BE CLEANED  
UNDER THIS CONTRACT.

BIN 1093571 - PIERS 1, 2, 3, 4, 5, 6 & 9  
BIN 1093572 - PIERS 1, 2, 3, 4, 5 & 6

NOTE, PIER #6 (BOTH STRUCTURES) THE TYPE OF BRIDGE JOINT  
IS AN ARMORED JOINT WITH COMPRESSION SEAL. THE DOWNSPOUTS  
ARE CONNECTED TO THE BRIDGE SCUPPERS.

THE CLEANING OF THE EXISTING DRAINAGE SYSTEM (ITEM 203.18M  
SHALL BE FROM HOPPER (FASCIA GIRDER) TO HOPPER (FASCIA  
GIRDER) AND SHALL INCLUDE THE PVC TROUGH AND THE ENTIRE  
DOWNSPOUT SYSTEM (DIA. OF DOWNSPOUTS VARY) FROM HOPPERS  
TO OUTLET. REFER TO DWG. NO. D017-1 THRU DWG. NO. D017-4  
FOR DRAINAGE DETAILS AND PROPOSED MODIFICATIONS TO PIER  
DOWNSPOUTS.

FOR QUANTITIES OF ITEMS SEE DRAINAGE RUN TABLE  
ON DRAWING NO. D017-3.

CONTRACTOR SHALL TAKE CARE WHEN PERFORMING CLEANING  
OPERATION NOT TO DAMAGE THE EXISTING DRAINAGE SYSTEM.  
ANY DAMAGE CAUSED BY CONTRACTOR'S OPERATIONS SHALL BE  
REPAIRED OR REPLACED AS DEEMED NECESSARY BY THE ENGINEER  
AT NO ADDITIONAL COST TO THE STATE.

DRAINAGE RUN TABLE ON DWG. NO. D017-3, THE DRAINAGE  
TROUGH'S ARE DIVIDED AT MID-PIER OF PIER.

SEE ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 FOR EXISTING PIER  
ELEVATIONS.

SEE DRAWING NO. D017-4 FOR PROPOSED PIER DOWNSPOUT DETAILS.

#### ITEMS USED:

ITEM 203.07M - SELECT GRANULAR FILL, 60M  
ITEM 207.10M - GEOTEXTILE BEDDING, 15M  
ITEM 203.18M - CLEAN CLOSED DRAINAGE SYSTEMS (NB  
ITEM 203.19M - CLEAN DRAINAGE STRUCTURES & MANHOLES (SA)  
ITEM 620.03M - STONE FILL, LIGHT, 60M

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 OVER CSX RR YARD	
DRAINAGE CLEANING DETAILS	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.DS1	REGION 3
DATE 10/02	DRAWING NO. D017-8



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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	297	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

- NOTES:
1. ALL REINFORCEMENT TO REMAIN.
  2. RESTORE TO ORIGINAL DIMENSIONS.
  3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  8. SEE DWG. PR17-25 FOR SECTIONS A-A, B-B, D-D, E-E AND F-F.
  9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  10. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

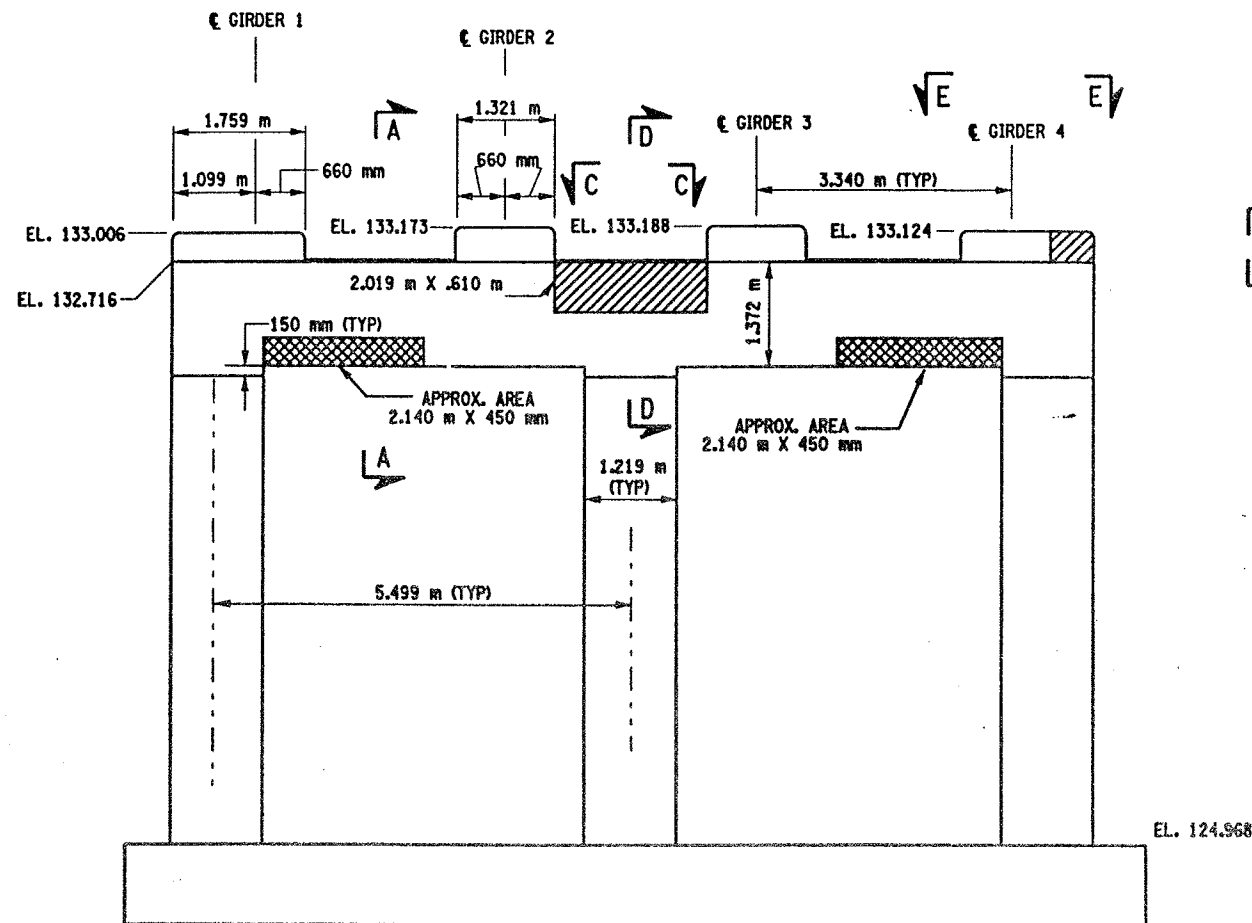
- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

BRIDGE BEARING RESTORATION NOTES:

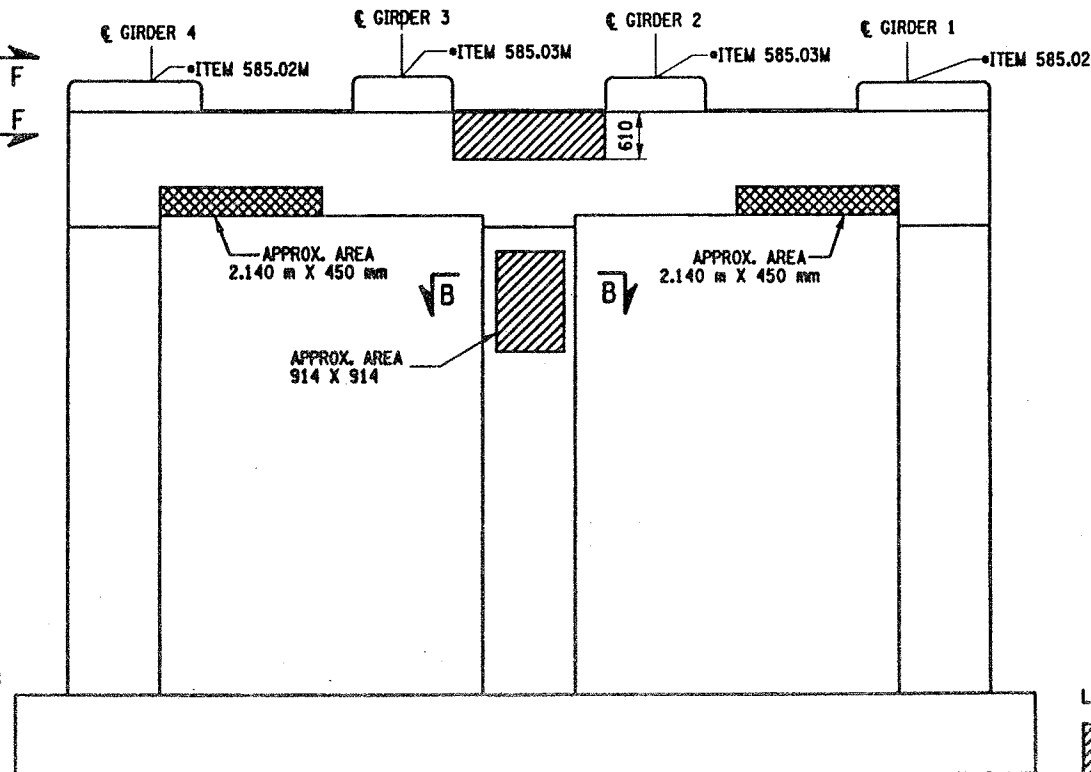
1. BRIDGE BEARING RESTORATION ITEM 15565.4302M SHALL INCLUDE ALL DESIGNATED WORK AS PER THE SPECIFICATION.
2. STRUCTURAL LIFTING SHALL BE USED WITH ALL EXPANSION BEARING RESTORATION.
3. IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER SPAN (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARINGS), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN SPECIFICATIONS SECTION 585-STRUCTURAL LIFTING OPERATIONS.
4. BEARING RESTORATION SHALL AS A MINIMUM, AND IN ALL CASES INCLUDE REPLACEMENT OF BRONZE PLATE.
5. FIXED BEARING TO BE CLEANED IN PLACE. DO NOT DISASSEMBLE.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 1	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P1A	REGION 3
DATE 10/02	DRAWING NO. PR17-1S



PIER 1 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 1 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50

JACKING NOTES:

THE METHOD OF LIFTING SHALL BE APPROVED BY THE DEPUTY CHIEF ENGINEER (STRUCTURES), DSES, TWO WEEKS PRIOR TO THE START OF THE WORK.

NO LIFTING WILL BE ALLOWED UNTIL ALL TEMPORARY SUPPORTS ARE SECURED.

WHEN POSSIBLE, THERE WILL BE NO LIVE LOAD DURING LIFTING.

LIFTING SHALL BE CONFINED TO ONE END OF A SPAN AT ANY ONE TIME.

IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER PIER (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARING), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN THE SPECIFICATION SECTION 585-STRUCTURAL LIFTING OPERATIONS.

WHERE THE CONTRACTOR IS REQUIRED TO PERFORM BEARING RESTORATION (SEE BR-11) AS WELL AS CONCRETE REPAIRS REQUIRING STRUCTURAL LIFTING, ONLY ONE STRUCTURAL LIFTING PAYMENT WILL BE MADE.

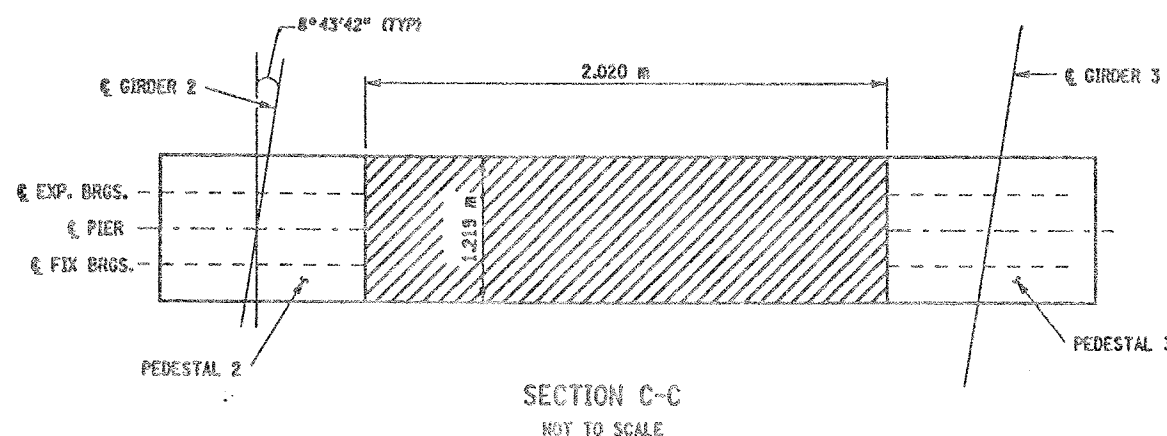
• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (EA)





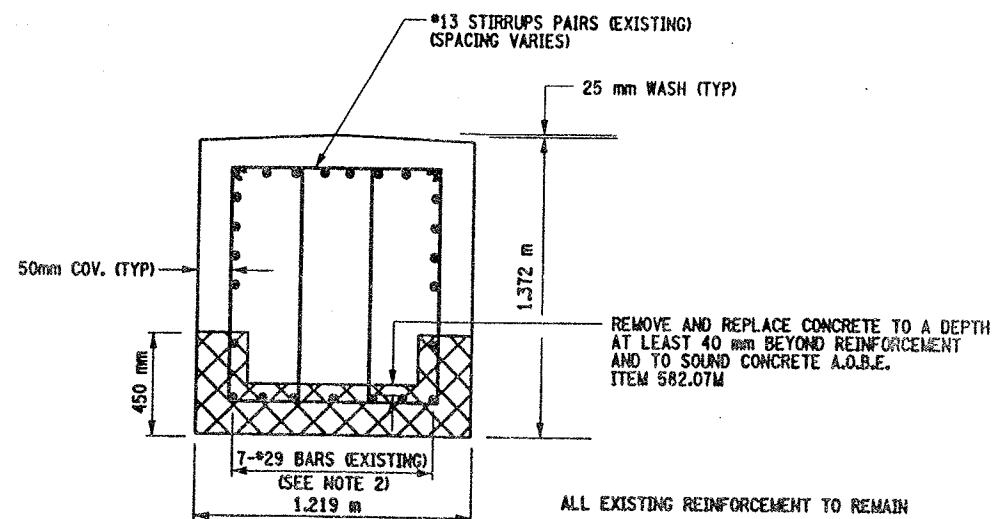
CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	298	432

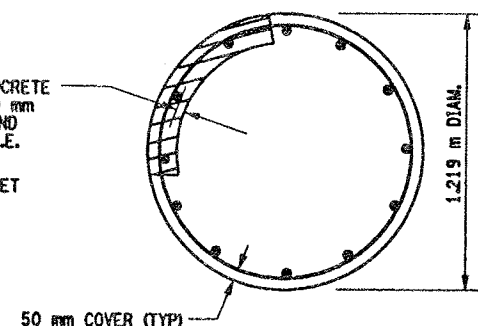
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
ONONDAGA COUNTY	
P.J.N. 305613	B.J.N. 1093571

NOTES:

1. ALL CONCRETE REMOVAL OPERATIONS SHALL INCLUDE SAW CUTTING TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN PRICE BID FOR THE APPROPRIATE REMOVAL ITEM.
2. THE REINFORCEMENT SHOWN IS TYPICAL FOR PIER #1. THE NUMBER AND OR SIZE OF REINFORCEMENT IN OTHER PIERS MAY VARY.
3. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
4. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

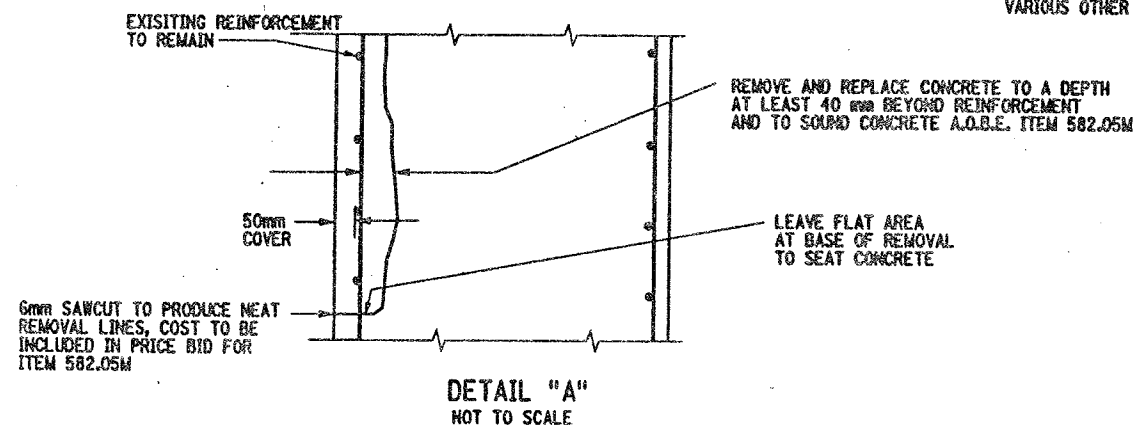
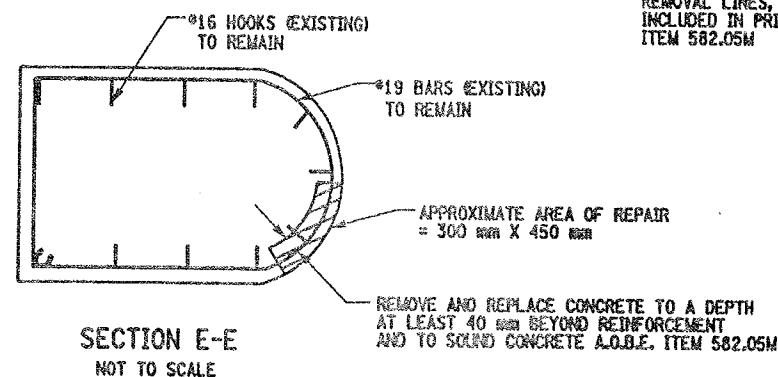
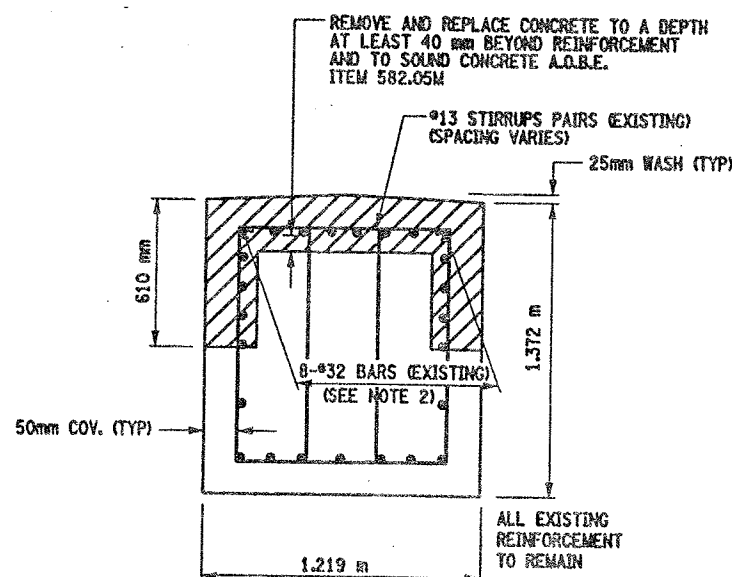


REMOVE AND REPLACE CONCRETE TO A DEPTH AT LEAST 40 mm BEYOND REINFORCEMENT AND TO SOUND CONCRETE A.O.B.E. ITEM 582.05M  
SEE DETAIL "A" THIS SHEET



SECTION B-B  
NOT TO SCALE

THE CONTRACTOR SHALL ONLY REMOVE AND REPLACE CONCRETE ON 1/4 OF THE CIRCUMFERENCE OF THE COLUMN SIMULTANEOUSLY, FOR THE FULL CURING PERIOD.



LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 1

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.  
305613AE.P1A 3 10/02 PR17-25

LIST OF ITEMS USED:

- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)

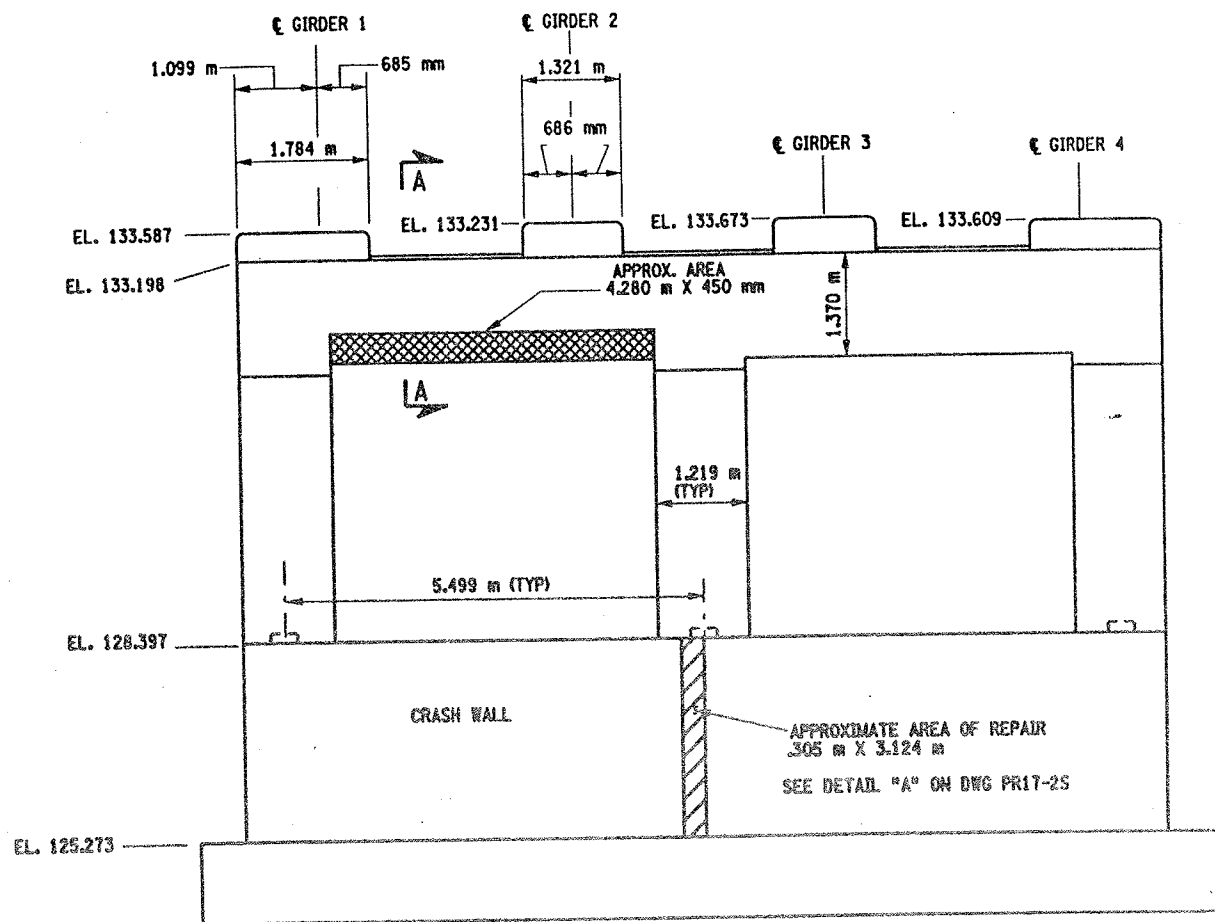


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CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	299	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

NOTES:

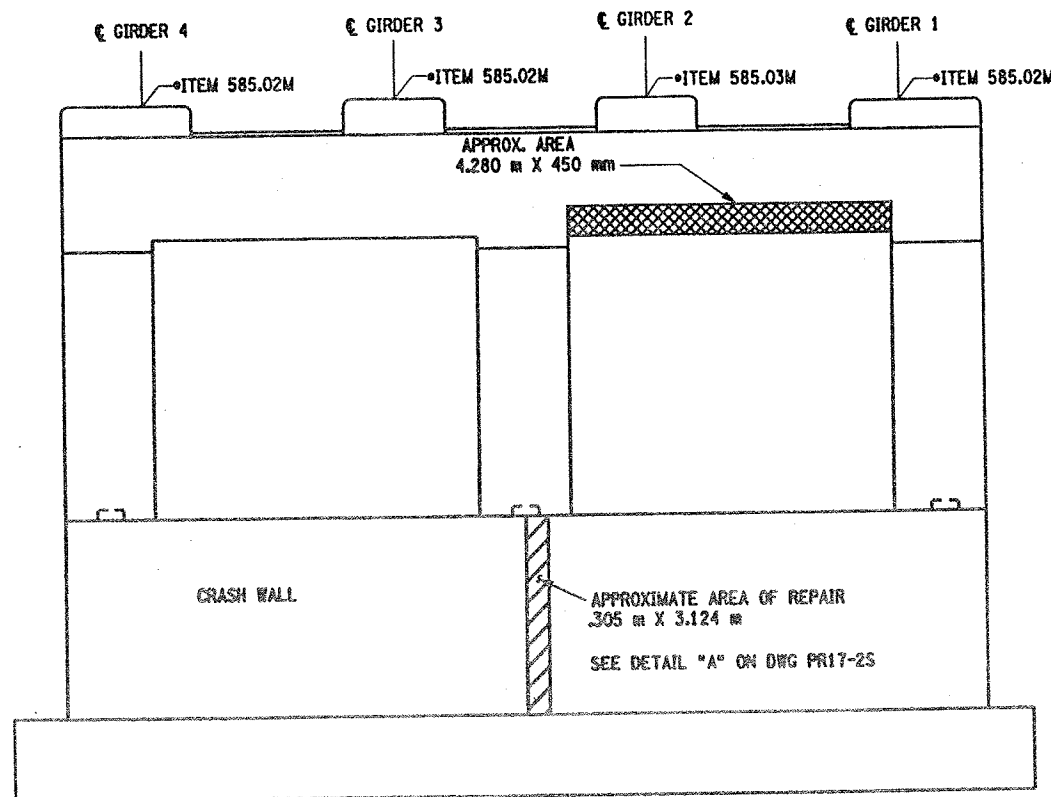
1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS), SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
8. SEE DWG. PR17-2S FOR SECTION A-A AND DETAIL "A".
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
10. FOR JACKING NOTES SEE DWG. PR17-1S
11. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BE FOR VARIOUS OTHER ITEMS OF CONTRACT.



PIER 2 - FRONT FACE (LOOKING NORTH)

BIN 1093571

SCALE: 1 TO 50



PIER 2- BACK FACE (LOOKING SOUTH)

BIN 1093571

SCALE: 1 TO 50

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (C10)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (S10)

LIST OF ITEMS USED

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MATL (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 2

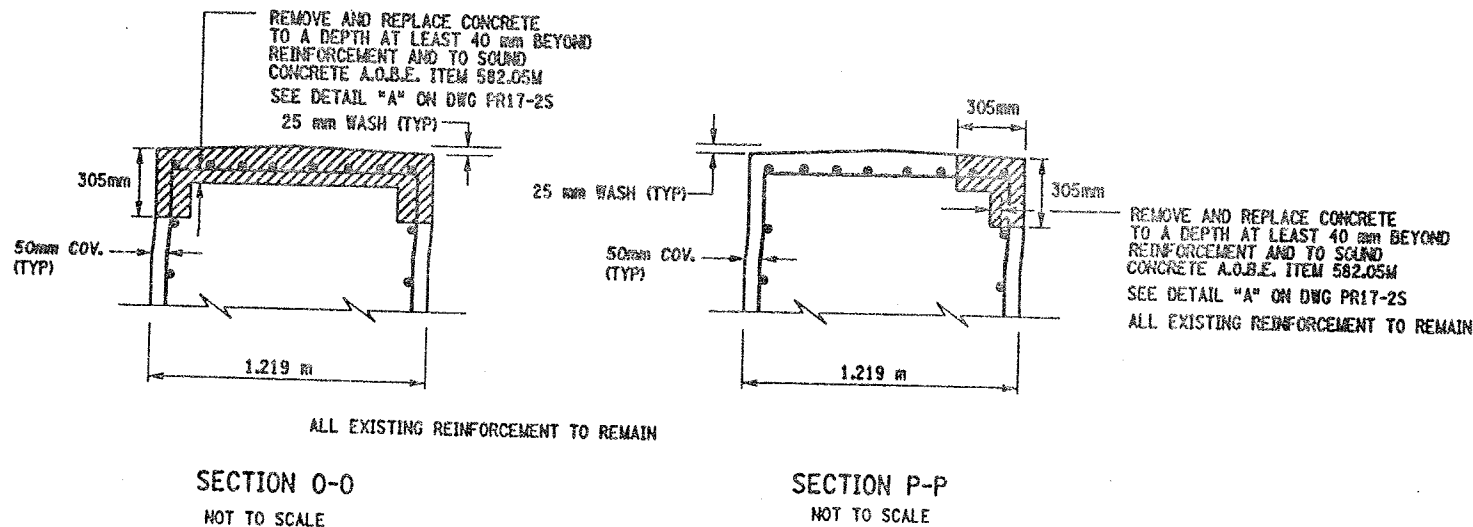
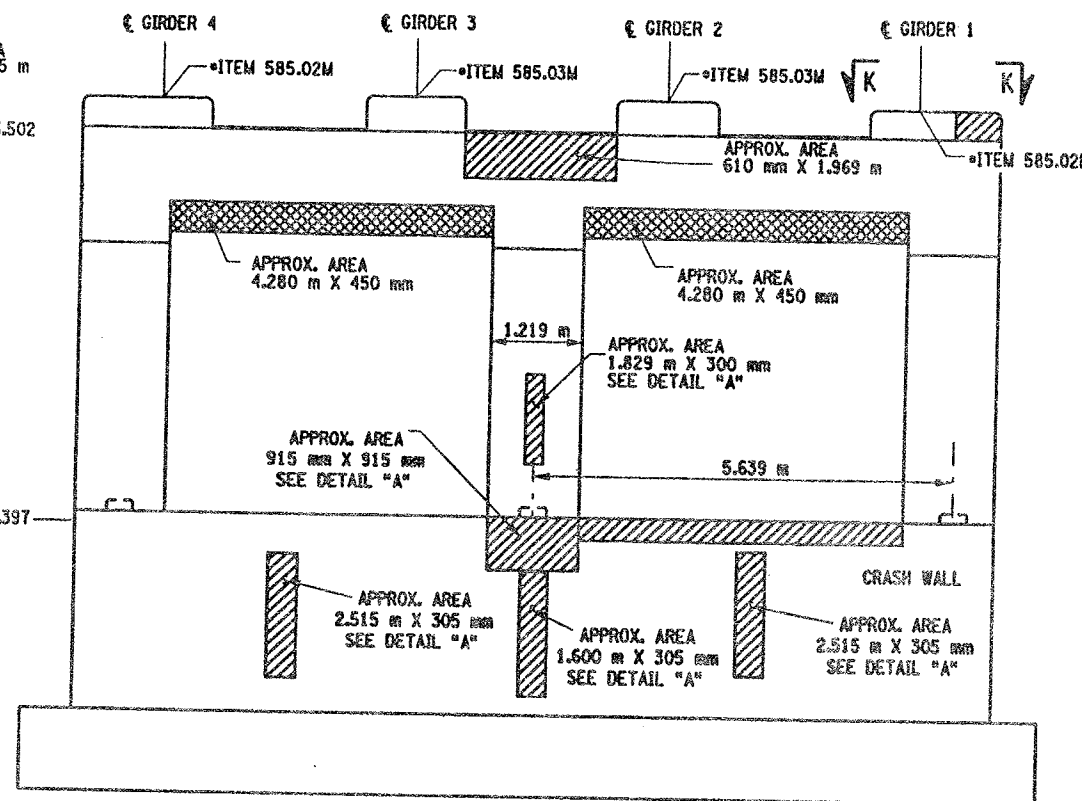
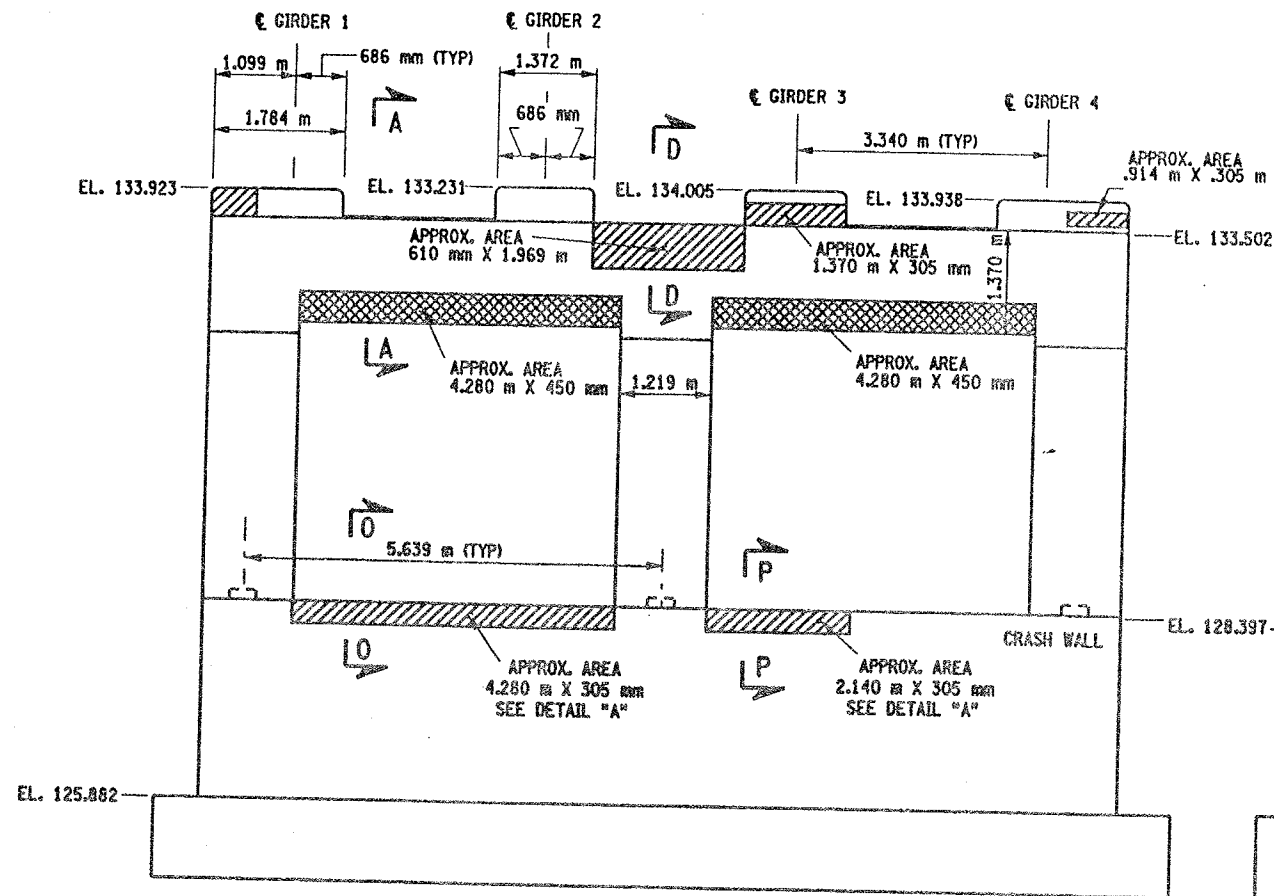


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.  
305613AE.P2A 3 10/02 PR17-3S



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	300	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571		

NOTES:

- ALL REINFORCEMENT TO REMAIN.
- RESTORE TO ORIGINAL DIMENSIONS.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
- ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.L.S.H. TO-T AND ARE FOR REFERENCE ONLY.
- REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
- PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
- SEE DWG. PR17-2S FOR SECTIONS A-A, D-D AND DETAIL "A".
- SEE DWG. PR17-2N FOR SECTION K-K.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
- FOR JACKING NOTES SEE DWG. PR17-1S.
- CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDISTALS AND TOP OF CAPBEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 3	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P3A	REGION 3
DATE 10/02	DRAWING NO. PR17-4S

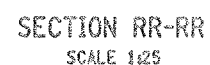
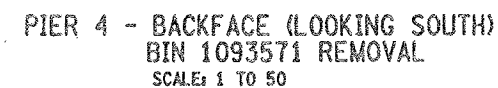
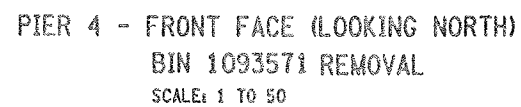


NOTES:

- ALL REINFORCEMENT TO REMAIN, (EXCEPT PEDESTAL REINFORCEMENT AND CAPBEAM REINFORCEMENT). THE VERTICAL REINFORCEMENT IN THE CAPBEAMS-ORIGINATING FROM THE COLUMNS SHALL REMAIN.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
- ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
- REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
- SEE DWG. PR17-4N FOR SECTION Q-Q.
- SEE DWG. PR17-2N FOR SECTION J-J.
- SEE DWG. PR17-4S FOR SECTION O-O.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.

0. FOR JACKING NOTES SEE DWG. PR17-1S



- 1. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
- 2. SEE BR-1 AND BR-2 FOR BEARING TABLE AND BEARING DETAILS.



JACKING LOADS:  
D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)  
ITEM 582.05M - REM. OF STRUC. CONC. ~ REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)  
ITEM 589.520001M - REMOVAL OF EXISTING STEEL (EA)

LEGEND:

REPAIR:		ITEM 582.05W - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
REPLACEMENT:		ITEM 580.01W - REMOVAL OF STRUCTURAL CONCRETE - (CM) (COMPLETE REMOVAL)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 4  
REMOVAL DETAILS

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P4A	3	10/02	PR17-SS

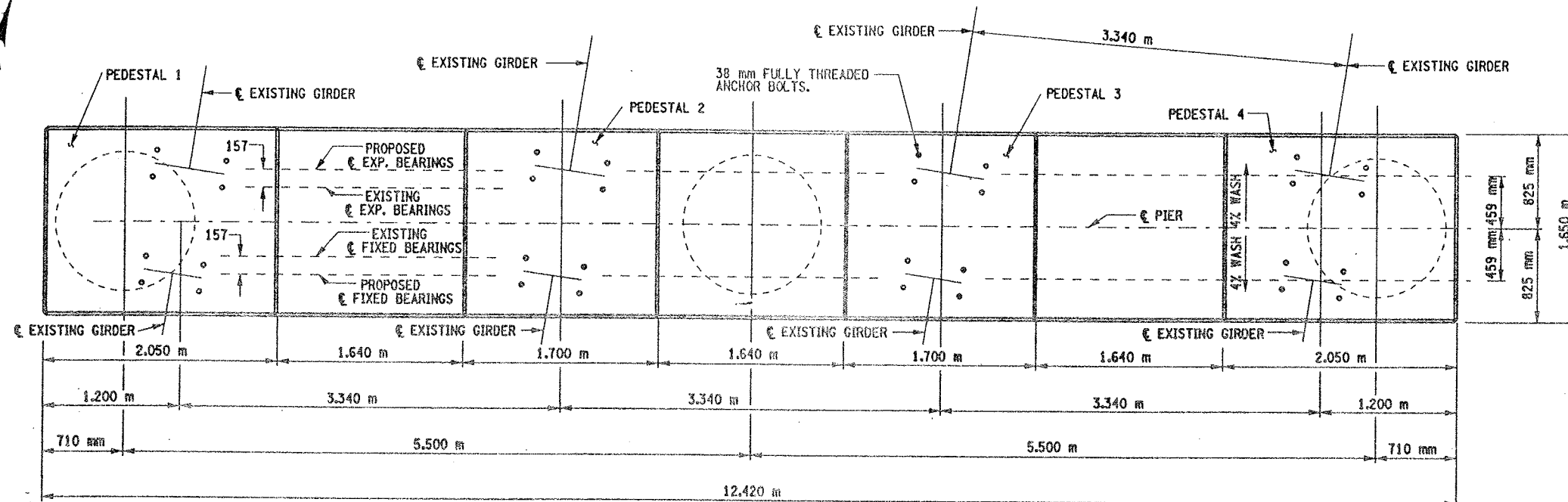


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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	302	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571		

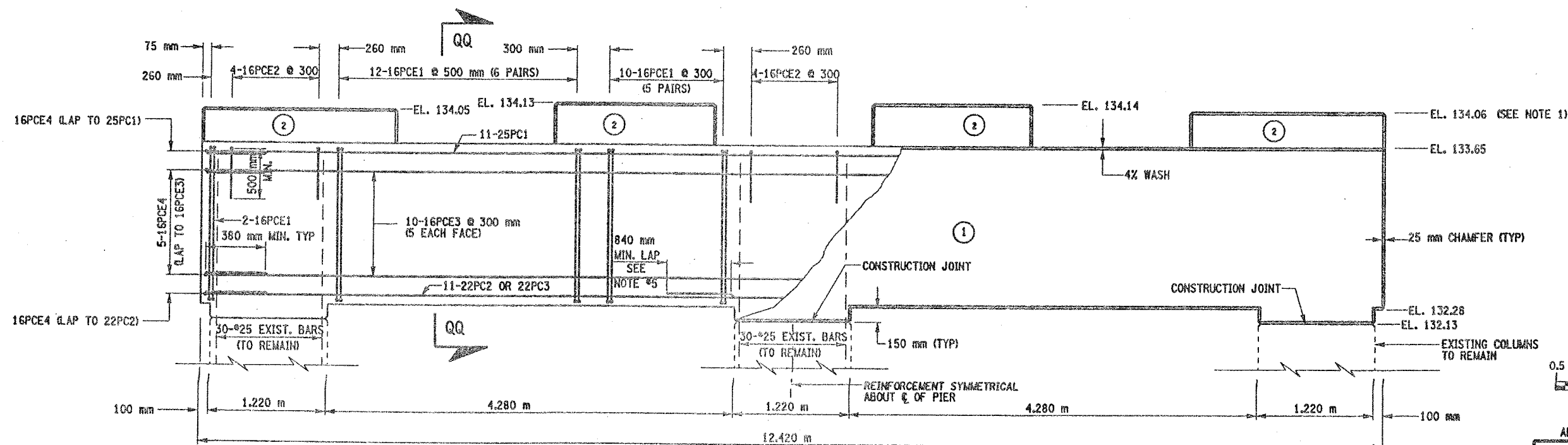
NOTES:

1. THESE ELEVATIONS MAY HAVE TO BE ADJUSTED TO ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES IN THE BEARINGS WHICH MAY AFFECT THE PEDESTAL ELEVATIONS OR DIMENSIONS.
2. SEE DWG PR17-TS FOR ANCHOR BOLT LAYOUT, PEDESTAL REINFORCEMENT DETAILS, SECTION QQ-QQ, AND CHAMFER DETAIL.
3. SEE DWG. NO. BL-6 FOR BAR LIST AND BAR BENDING DIAGRAMS.
4. SEE BR-1 AND BR-2 FOR BEARING DETAILS.
5. REINF. BAR LAPS, IF REQUIRED SHALL BE STAGGERED SO NO MORE THAN 50% OF THE BARS ARE LAPPED AT ANY ONE LOCATION.



PROPOSED PLAN

SCALE 1:25



(NO.) INDICATES CONCRETE PLACEMENT NUMBER

PROPOSED ELEVATION

SCALE 1:25

CONCRETE TABLE (m <sup>3</sup> )		
PLACEMENT	QUANTITY	ITEM NO.
1	5.46	555.09M
2	28.60	555.09M

LIST OF ITEMS USED:

ITEM 555.09M - CONCRETE FOR STRUCTURES, CLASS HP (CM)  
ITEM 556.0201M - UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUC. (KG)  
ITEM 556.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUC. (KG)

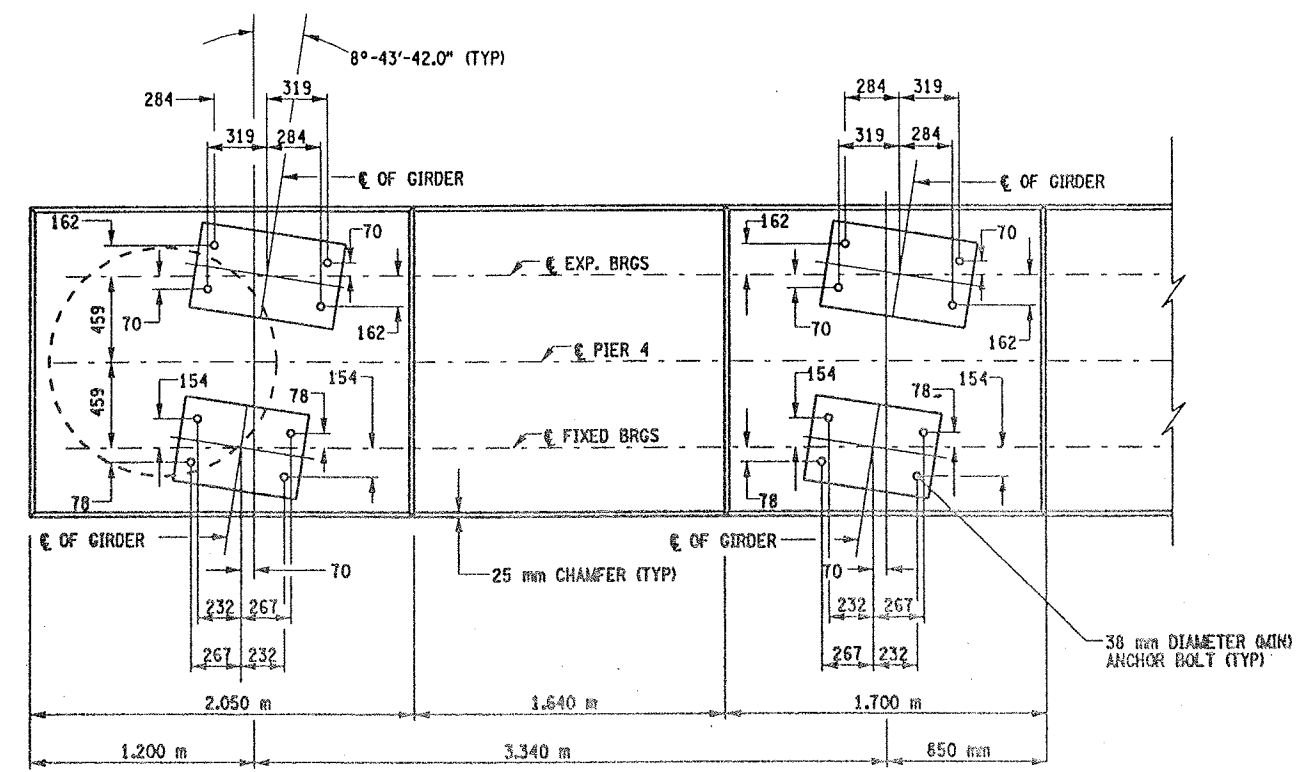


ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED			
<u>AS BUILT REVISIONS</u>			
SIGNATURE		DATE	
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 4			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P4A	REGION 3	DATE 10/02	DRAWING PR17-6

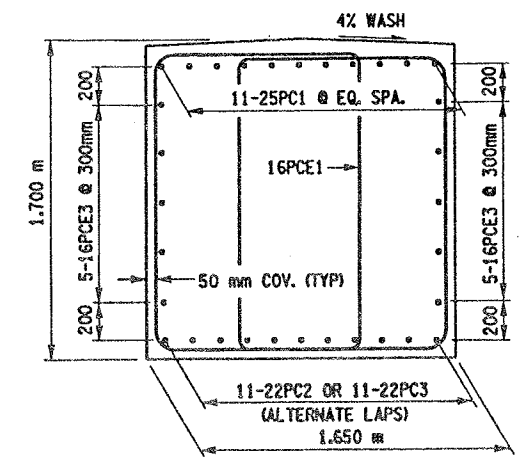


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ESTIMATED BY  
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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
		D259214	303	432
1	N.Y.			
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613			B.I.N. 1093571	



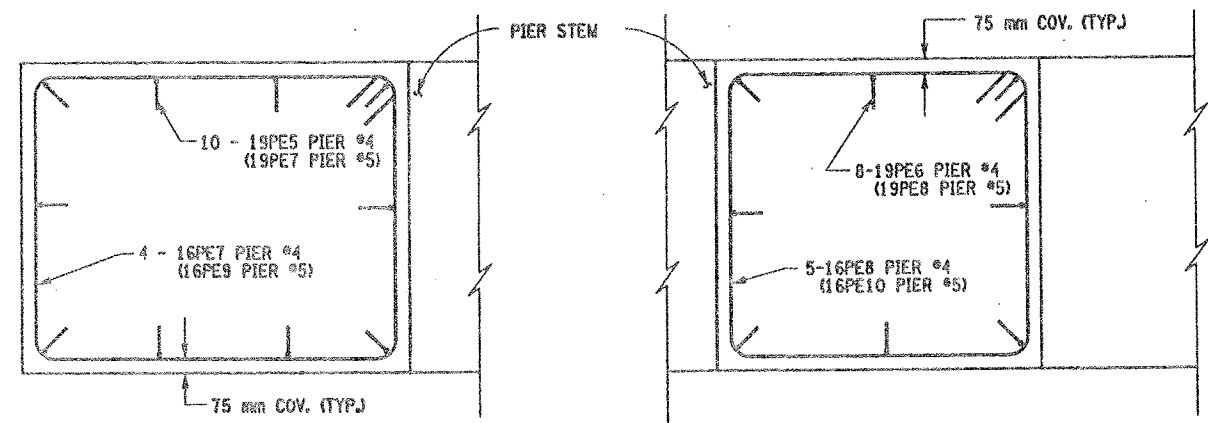
ANCHOR BOLT LAYOUT  
SCALE 1:20



SECTION QQ-QQ  
SCALE 1 TO 20

NOTES:

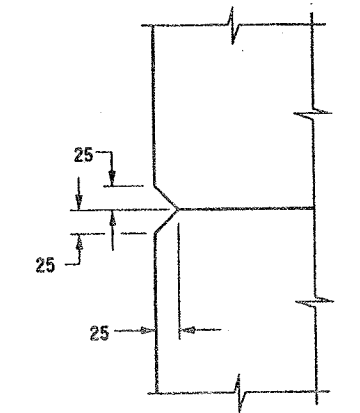
1. SEE DWG. NO. BL-6 FOR BAR LIST AND BAR BENDING DIAGRAM.
2. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
3. SEE BR-1 AND BR-2 FOR BEARING DETAILS.
4. SAME BAR MARKS SHALL APPLY FOR BOTH PIERS.



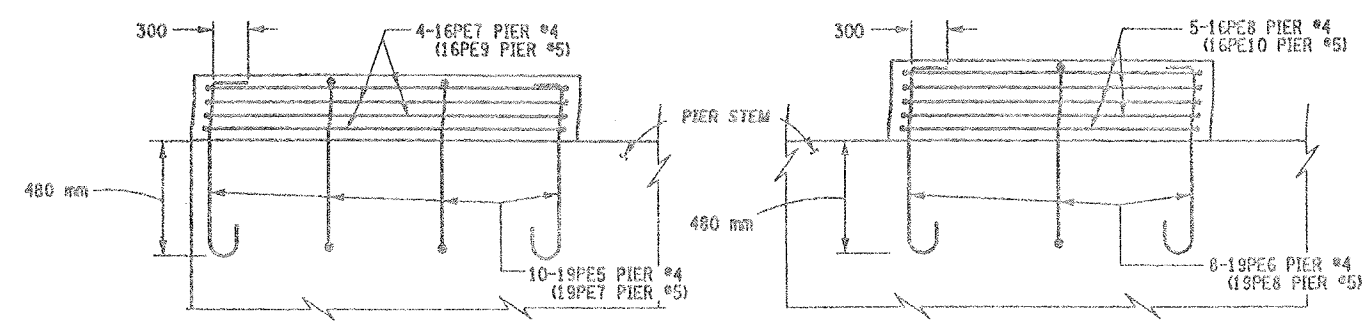
PEDESTALS 1 & 4

PEDESTALS 2 & 3

PEDESTAL REINFORCEMENT (PLAN)  
SCALE 1:20



CHAMFER DETAIL  
NOT TO SCALE



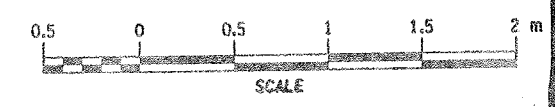
PEDESTALS 1  
(PEDESTAL 4 SIMILAR)

PEDESTALS 2 & 3

PEDESTAL REINFORCEMENT (ELEVATION)  
SCALE 1:20

LIST OF ITEMS USED:

- ITEM 555.09M - CONCRETE FOR STRUCTURES, CLASS HP (CM)
- ITEM 556.0201M - INCOATED BAR REINFORCEMENT FOR CONCRETE STRUC. (KG)
- ITEM 556.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUC. (KG)
- ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)



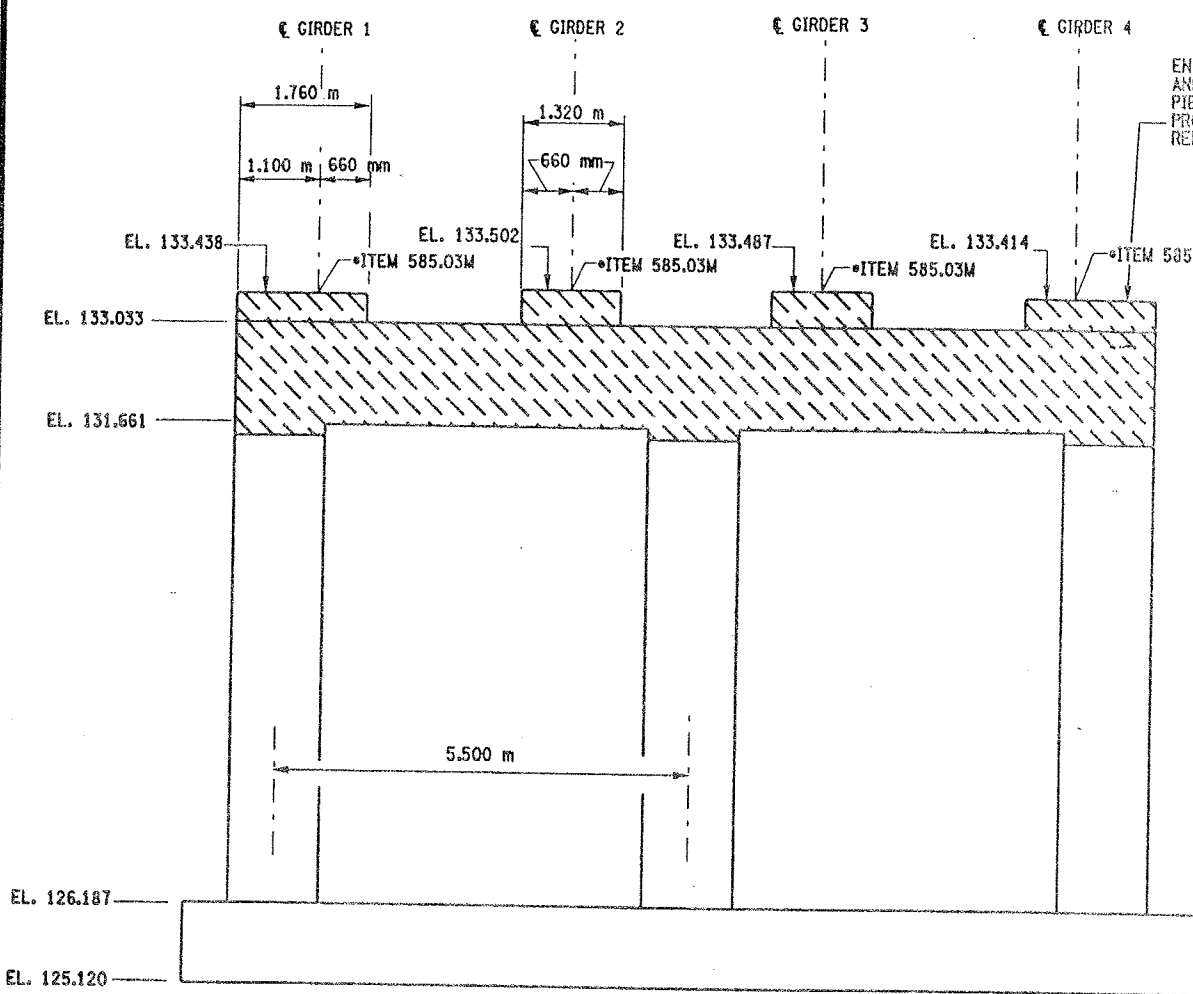
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

<u>AS BUILT REVISIONS</u>			
<u>SIGNATURE</u>		<u>DATE</u>	
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIERS 4 & 5			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P4A	REGION 3	DATE 10/02	DRAWING NO. PR17-7S



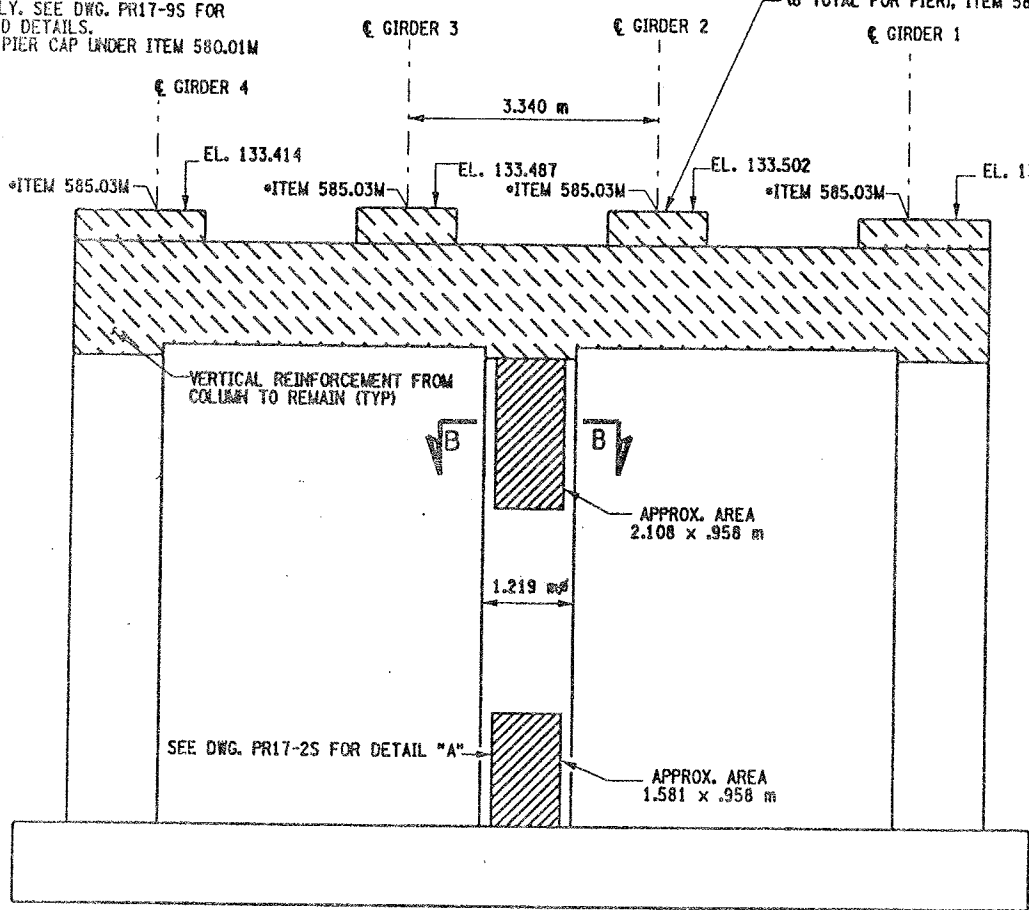
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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	304	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	



PIER 5 - FRONT FACE (LOOKING NORTH)  
BIN 1093571 (REMOVAL)  
SCALE: 1 TO 50

ENTIRE PIER CAP TO BE REMOVED AND REPLACED ON SOUTHBOUND PIER ONLY. SEE DWG. PR17-95 FOR PROPOSED DETAILS. REMOVE PIER CAP UNDER ITEM 580.01M



PIER 5 - BACK FACE (LOOKING SOUTH)  
BIN 1093571 (REMOVAL)  
SCALE: 1 TO 50

NOTES:

1. ALL REINFORCEMENT TO REMAIN, (EXCEPT PEDESTAL REINFORCEMENT AND CAPBEAM REINFORCEMENT). THE VERTICAL REINFORCEMENT IN THE CAPBEAMS-ORIGINATING FROM THE COLUMNS SHALL REMAIN.
2. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
3. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
4. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
5. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
6. SEE DWG. PR17-2S FOR SECTION B-B AND DETAIL "A".
7. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M
8. FOR JACKING LOADS SEE DWG. PR17-1S
9. SEE BR-1 AND BR-2 FOR BEARING TABLE AND BEARING DETAIL.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

LEGEND:

- REPAIR: ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- REPLACEMENT: ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE - (CM) (COMPLETE REMOVAL)

LIST OF ITEMS USED:

- ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 585.02M - STRUCTURAL LIFTING OPERATION - TYPE C (EACH)
- ITEM 589.520001M - REMOVAL OF EXISTING STEEL (EACH)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE	DATE		
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 5			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P5A	REGION 3	DATE 10/02	DRAWING NO. PR17-85



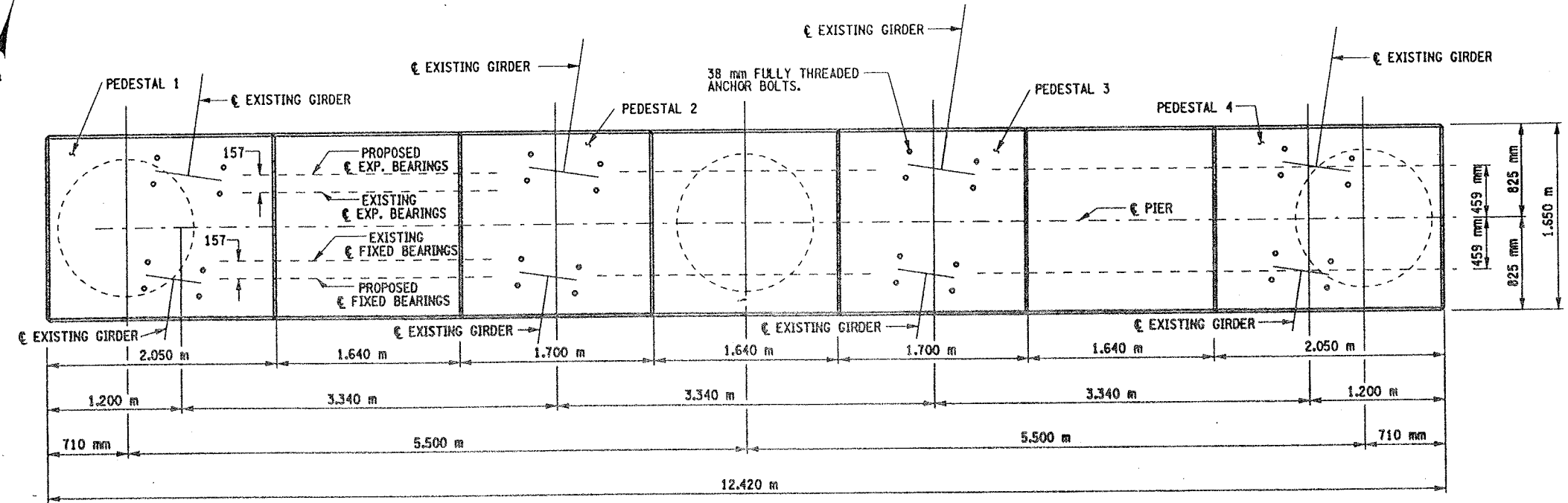
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DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	305	432

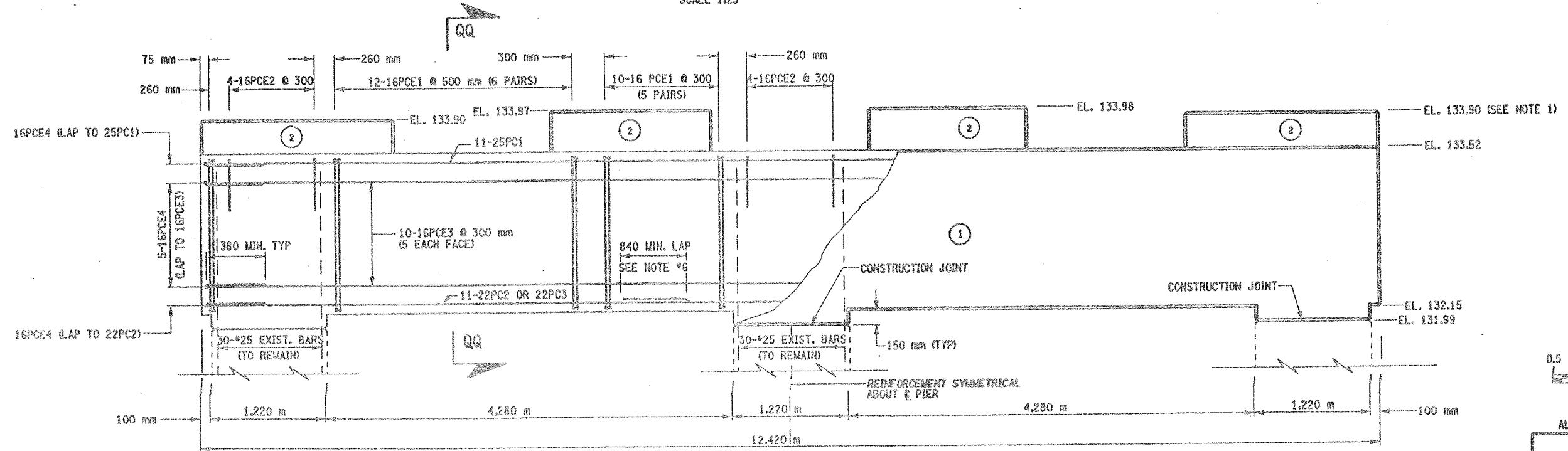
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
COUNTY OF ONONDAGA	
P.I.N. 305613	B.I.N. 1093571

NOTES:

1. THESE ELEVATIONS MAY HAVE TO BE ADJUSTED TO ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES IN THE BEARINGS WHICH MAY AFFECT THE PEDESTAL ELEVATIONS OR DIMENSIONS.
2. SEE DWG. NO. PR17-7S FOR ANCHOR BOLT LAYOUT, PEDESTAL REINFORCEMENT DETAIL AND SECTION Q-Q FOR CHAMFER DETAIL.
3. SEE DWG. NO. BL-6 FOR BARLIST AND BAR BENDING DIAGRAMS.
4. SEE BR-1 AND BR-2 FOR BEARING DETAILS.
5. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
6. REINFORCING BAR LAPS, IF REQUIRED, SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF THE BARS ARE LAPPED AT ANY ONE LOCATION.



PROPOSED  
PLAN  
SCALE 1:25



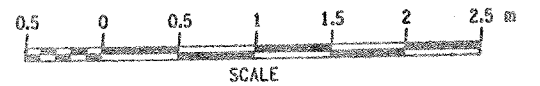
PROPOSED  
ELEVATION  
SCALE 1:25

(NO.) INDICATES CONCRETE PLACEMENT NUMBER

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	5.12	555.09M
2	28.60	555.09M

LIST OF ITEMS USED:

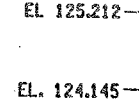
- ITEM 555.09M - CONCRETE FOR STRUCTURES, CLASS HP (CM)
- ITEM 555.0201M - UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUC. (KG)
- ITEM 555.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUC. (KG)



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 5			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P5A	REGION 3	DATE 10/02	DRAWING NO. PR17-9S

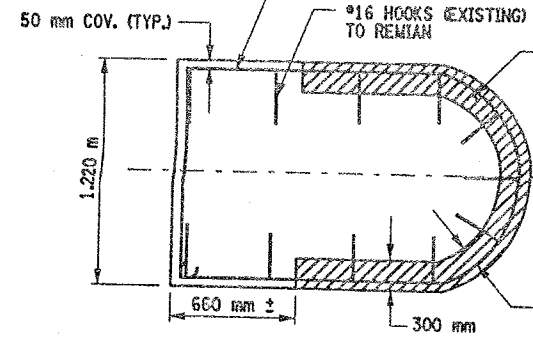




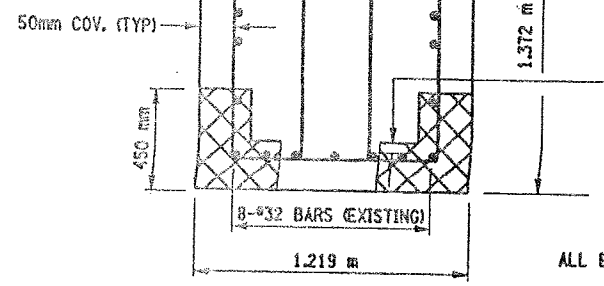
SCALE: 1 TO 50



SCALE: 1 TO 50



NOT TO SCALE



NOT TO SCALE

ALL EXISTING REINFORCEMENT TO REMAIN

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	306	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
8. SEE DWG. PR17-1S FOR SECTION C-C.
9. SEE DWG. PR17-SM FOR SECTION T-T.
10. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
11. FOR JACKING NOTES SEE DWG PR17-1S.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M -  
STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING  
AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING  
OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE  
CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE  
FOOTING AND/OR GROUND LEVEL.

**JACKING LOADS:**

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

**LEGEND:**

ITEM 582.05M - REMOVAL OF STRUCTURAL  
CONCRETE- REPLACE WITH CLASS A  
CONCRETE (CM)

ITEM 582.07M - REMOVAL OF STRUCTURAL  
CONCRETE - REPLACE WITH VERTICAL OVER-  
HEAD PATCH MATERIAL. (SMD)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

**SIGNATURE**

DATE \_\_\_\_\_

INTERSTATE 401 SB  
OVER  
CSX RAILROAD YARD  
PIER 6

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME  
305613AE.P6A

REGION  
3

DATE  
10/02

DRAWING NO.  
PR17-105



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CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	307	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
9. FOR JACKING NOTES SEE DWG. PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

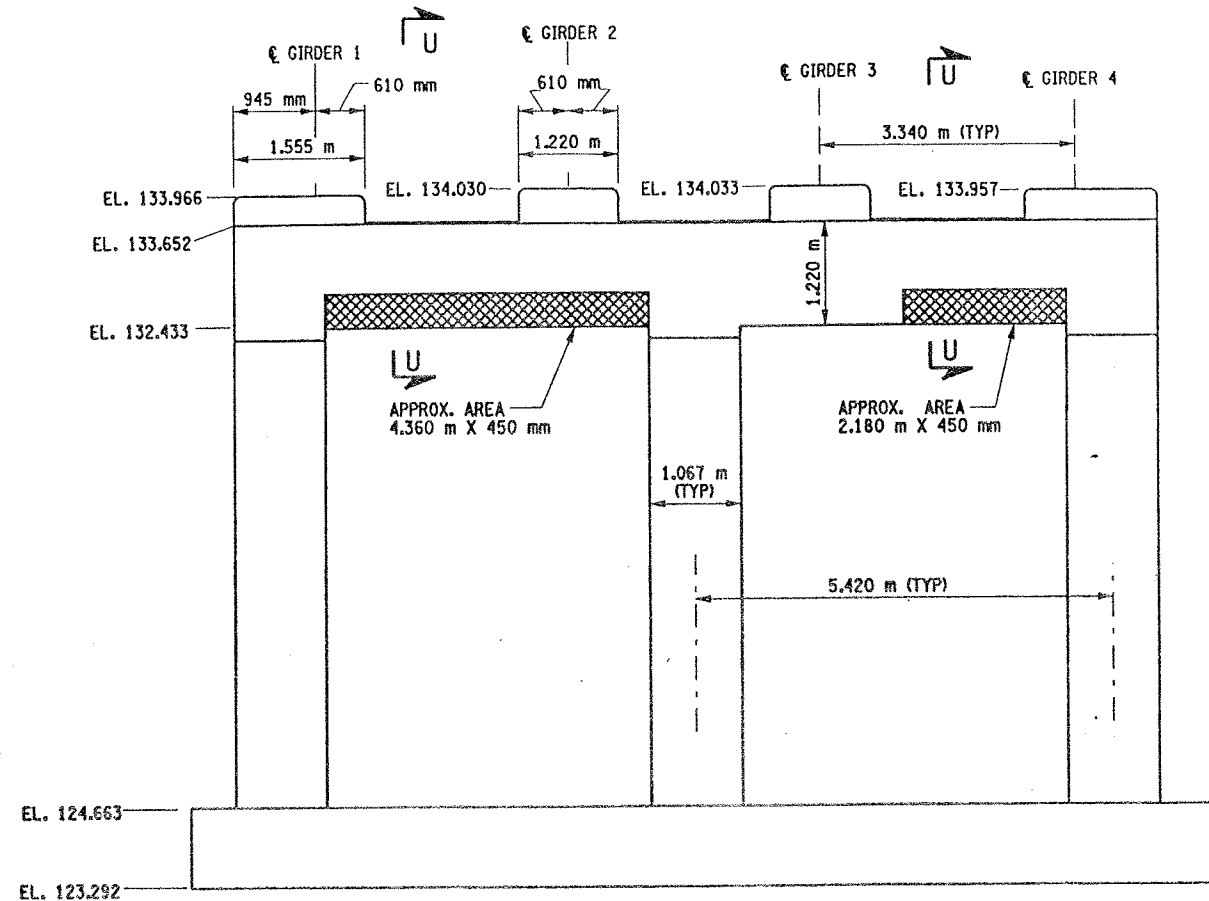
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

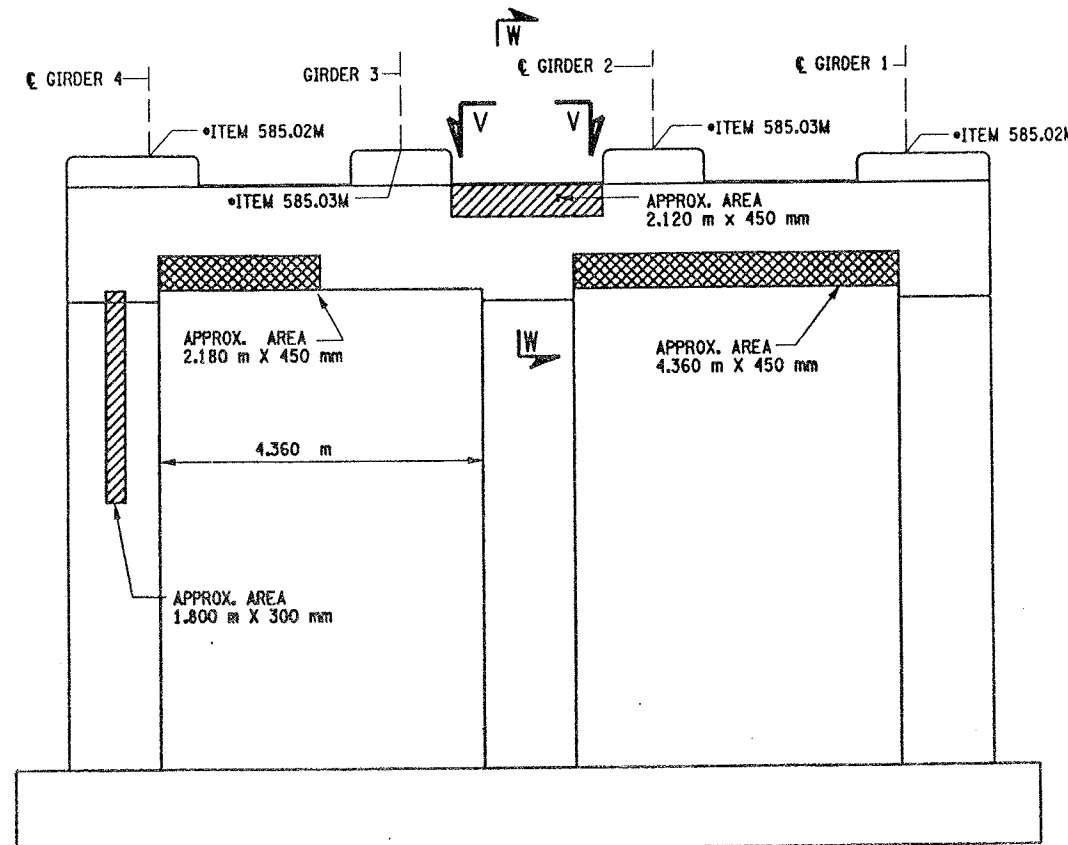
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

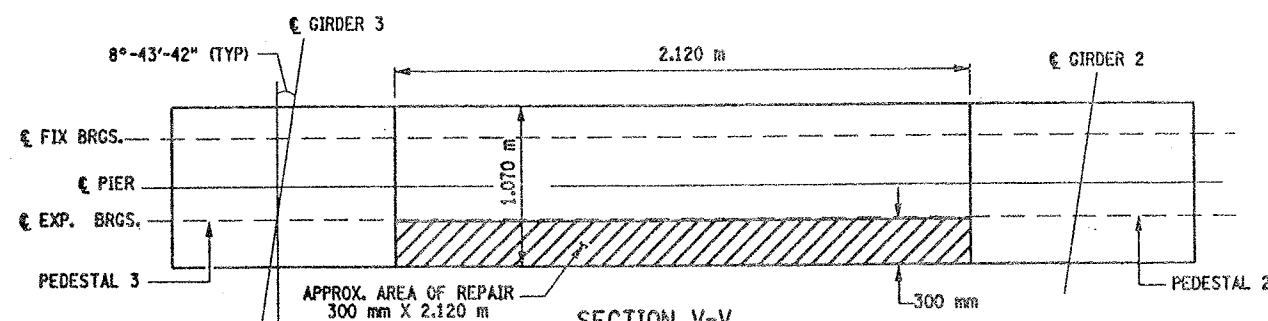
SIGNATURE	DATE
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 7	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P7A	REGION 3
DATE 10/02	DRAWING NO. PR17-11S



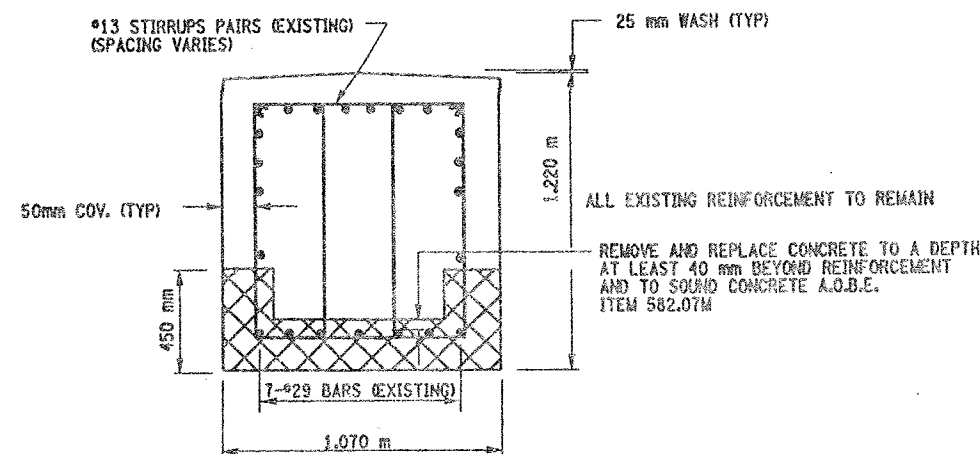
PIER 7 - FRONT FACE LOOKING NORTH  
BIN 1093571  
SCALE: 1 TO 50



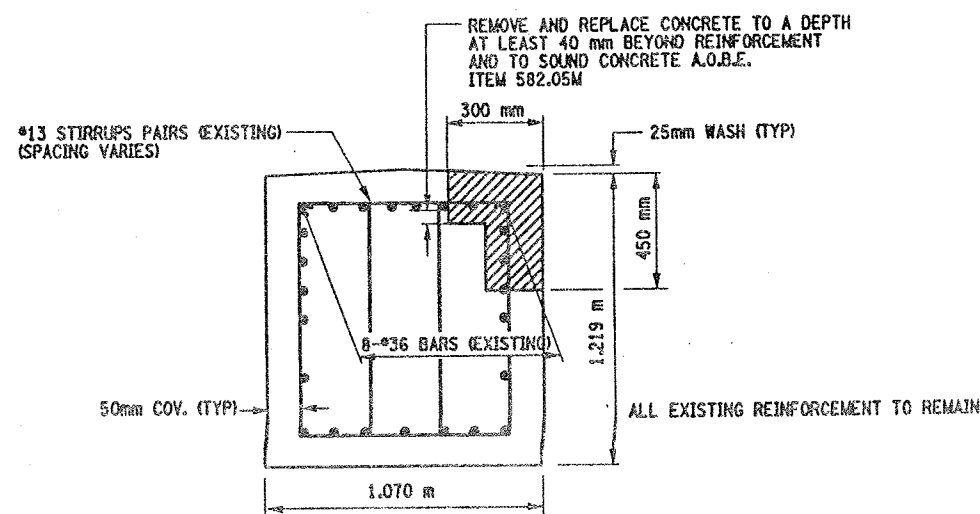
PIER 7 - BACK FACE LOOKING SOUTH  
BIN 1093571  
SCALE: 1 TO 50



SECTION V-V  
NOT TO SCALE



SECTION U-U  
NOT TO SCALE



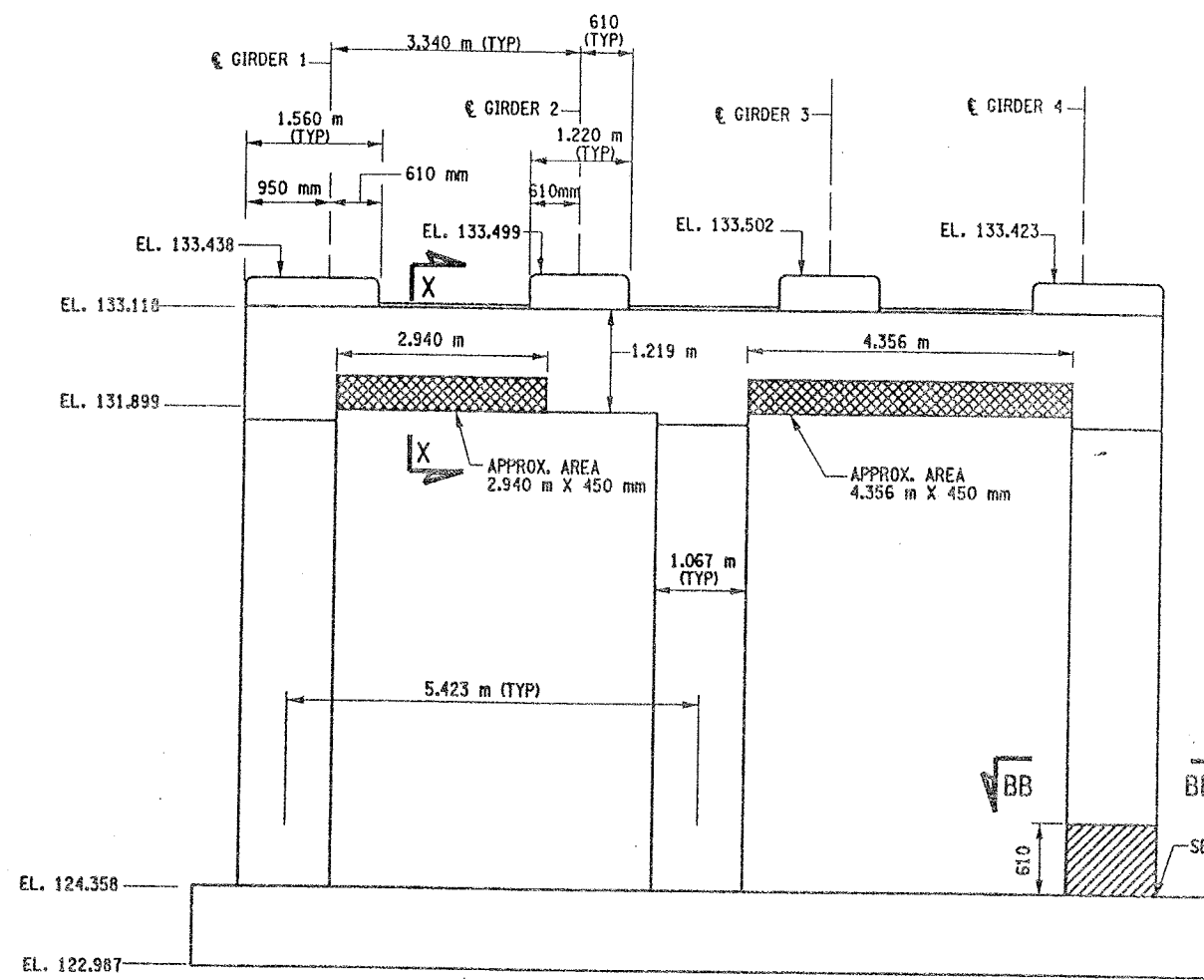
SECTION W-W  
NOT TO SCALE

LIST OF ITEMS USED:

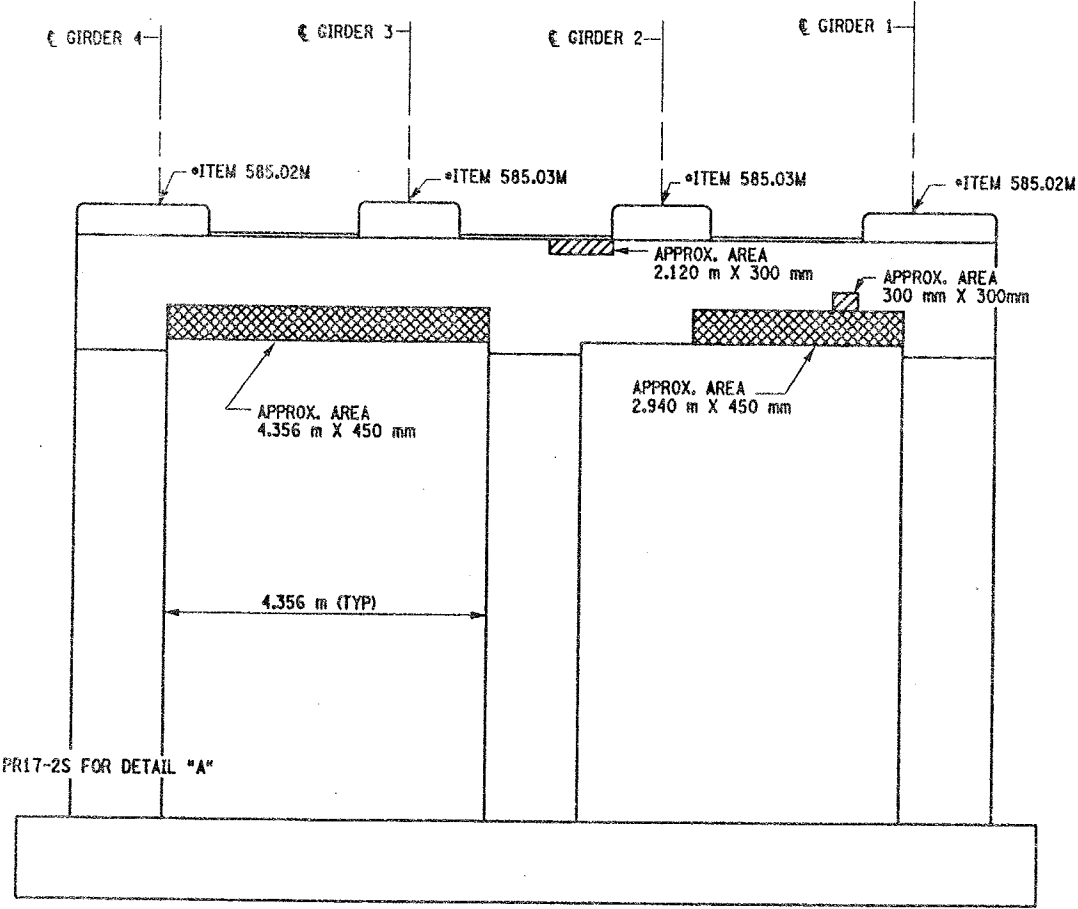
ITEM 15565.4302M - BRIDGE BEARING RESTORATION  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (CM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (CA)



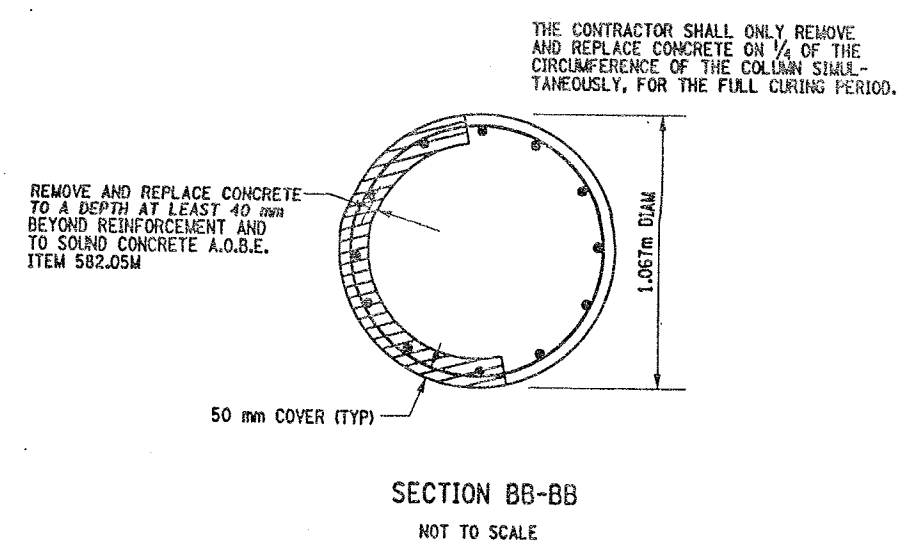
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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



PIER 8 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 8 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50



- LIST OF ITEMS USED:
- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	308	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - SEE DWG. PR17-7N FOR SECTIONS X-X.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG. PR17-1S
  - CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF THE CONTRACT.

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 SB OVER CSX RAILROAD PIER 8			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P8A	REGION 3	DATE 10/02	DRAWING NO. PR17-12S



CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	309	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

# NOTES:

- ALL REINFORCEMENT TO REMAIN.
- RESTORE TO ORIGINAL DIMENSIONS.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
- ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
- REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
- PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
- SEE DWG. PR17-7N FOR SECTIONS AA-AA, Y-Y AND X-X.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
- FOR JACKING NOTES SEE DWG PR17-1S
- CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

## JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

## LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

## AS BUILT REVISIONS

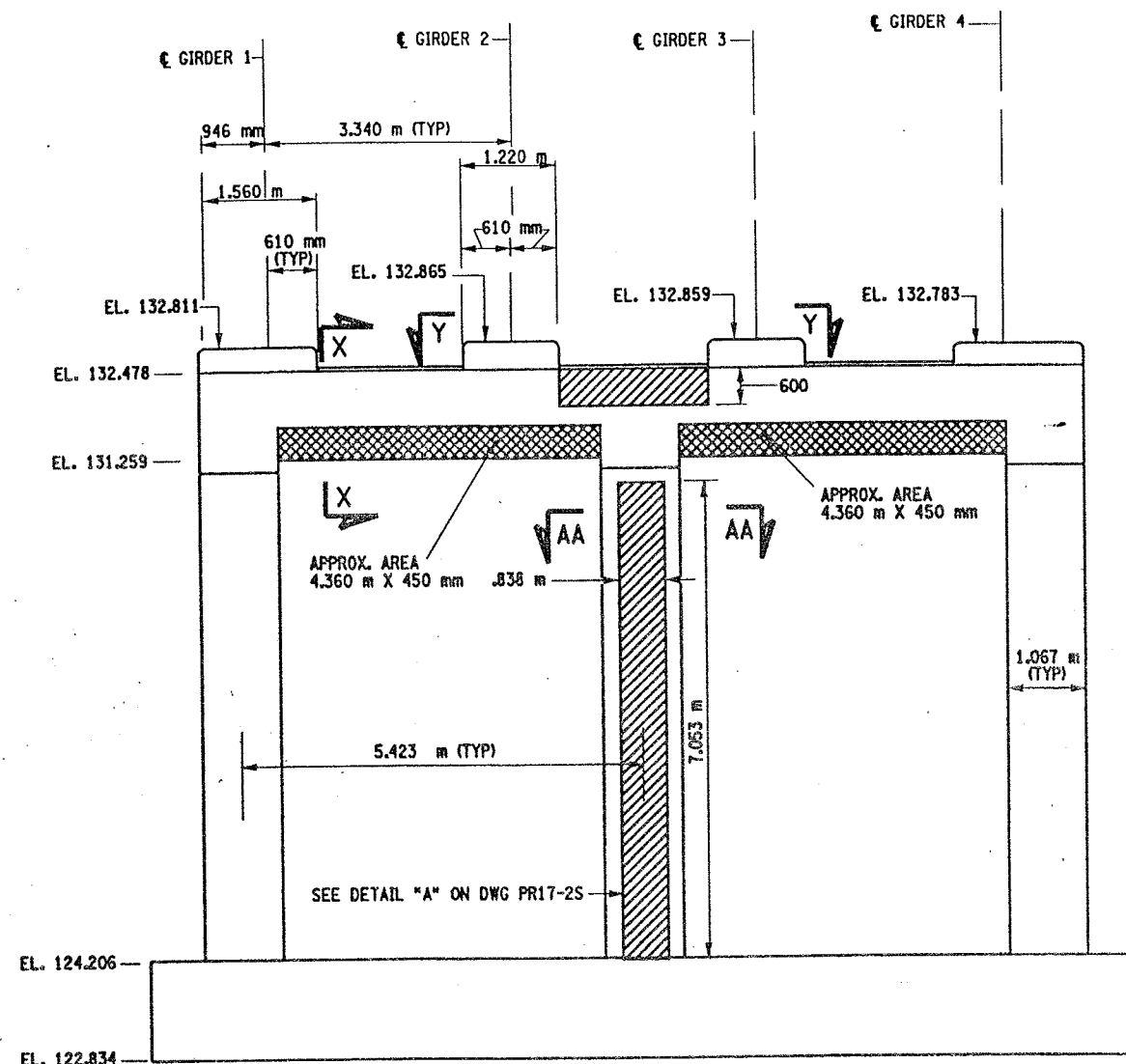
SIGNATURE DATE

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 9

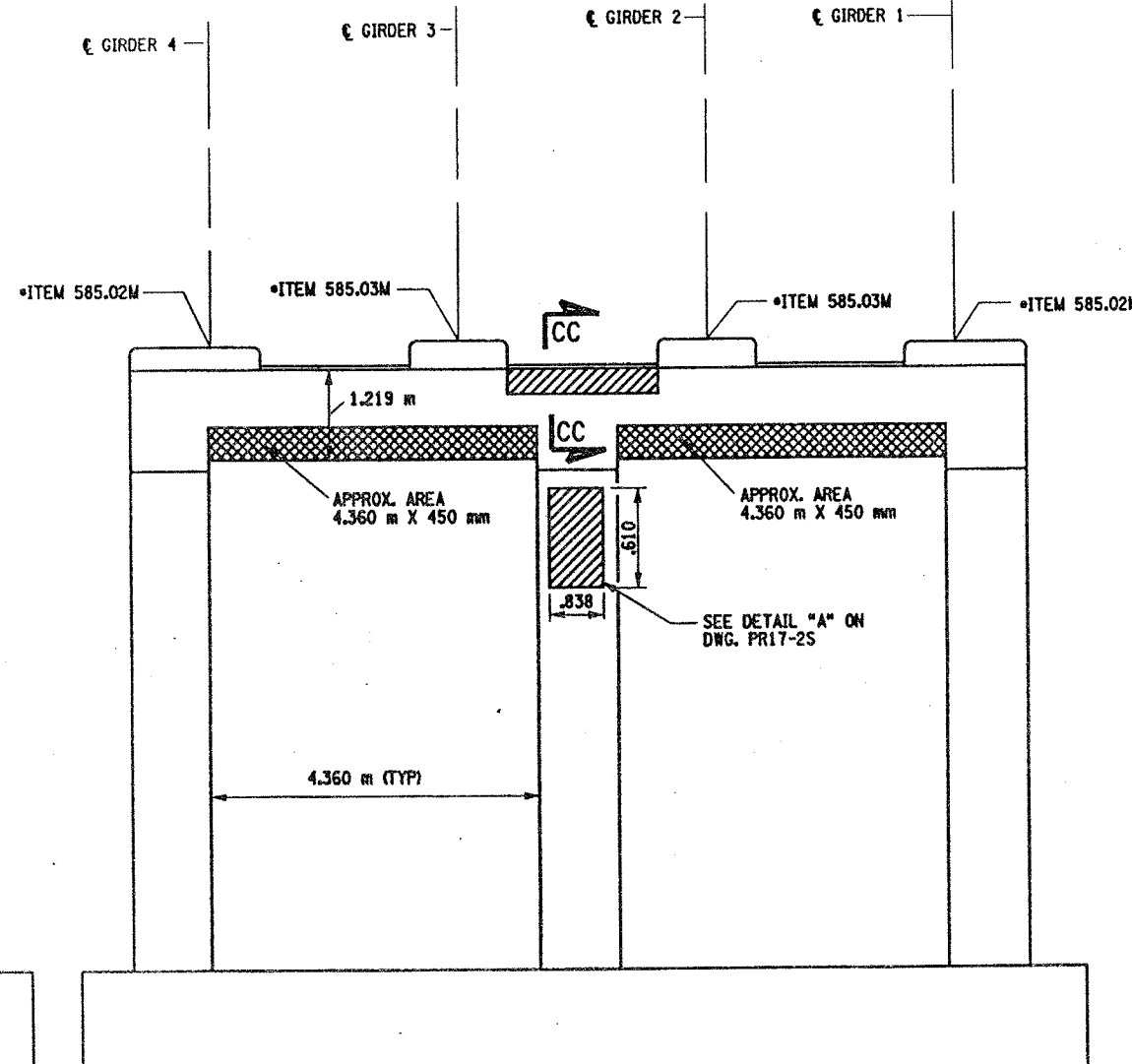


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

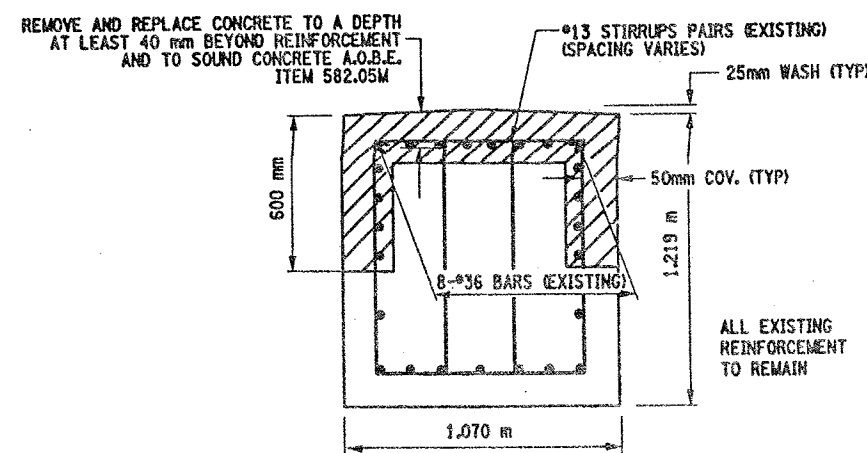
FILENAME	REGION	DATE	DRAWING NO.
305613AE.P9A	3	10/02	PR17-13S



PIER 9 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 9 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50



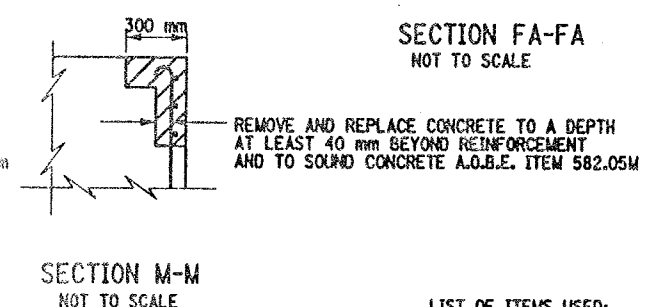
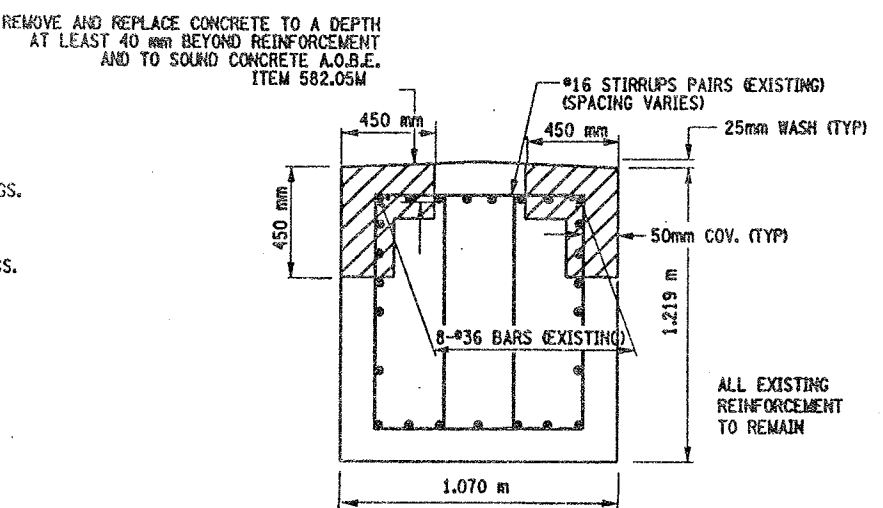
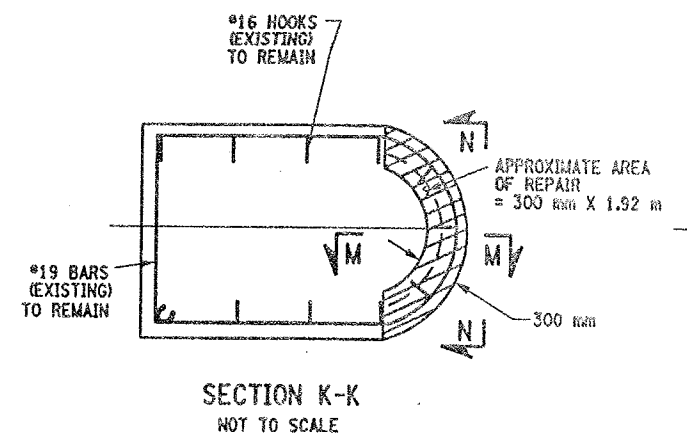
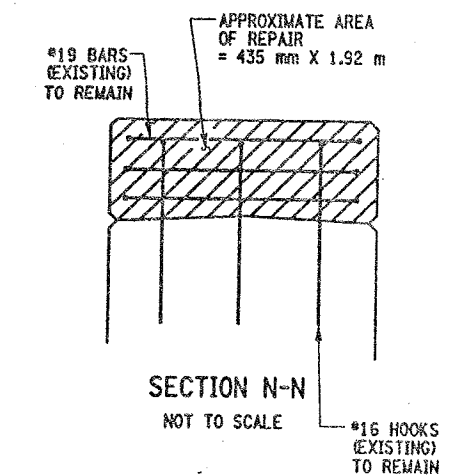
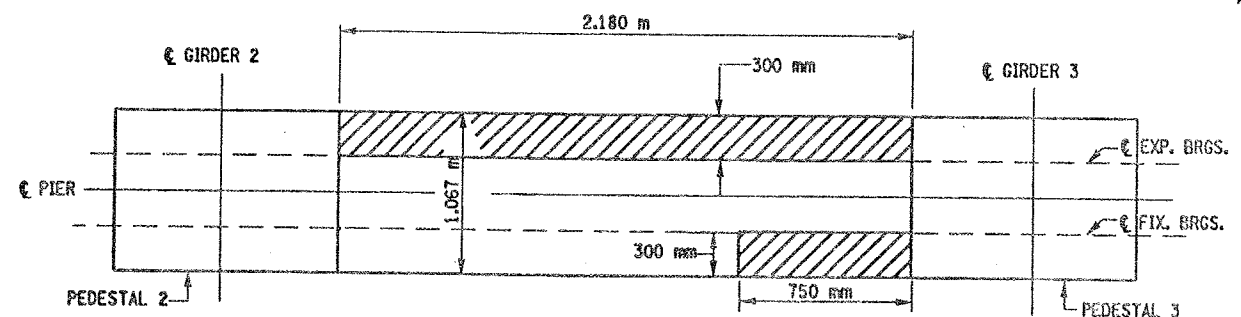
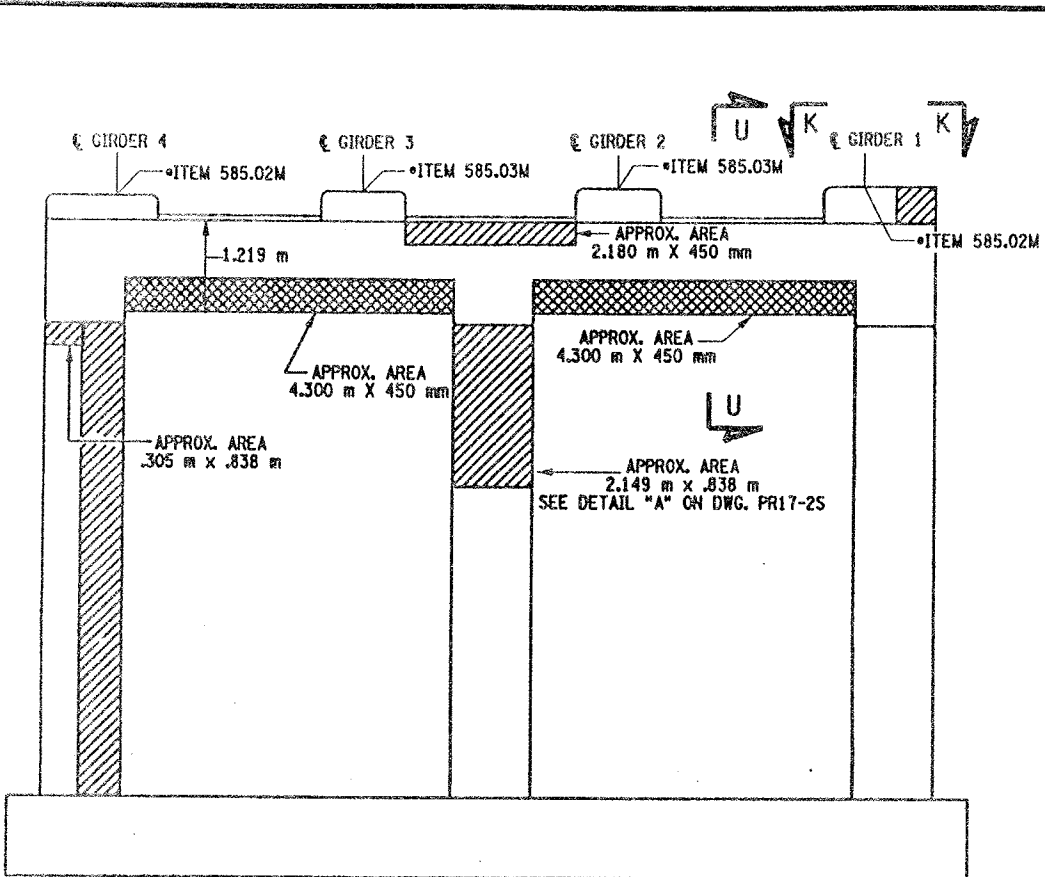
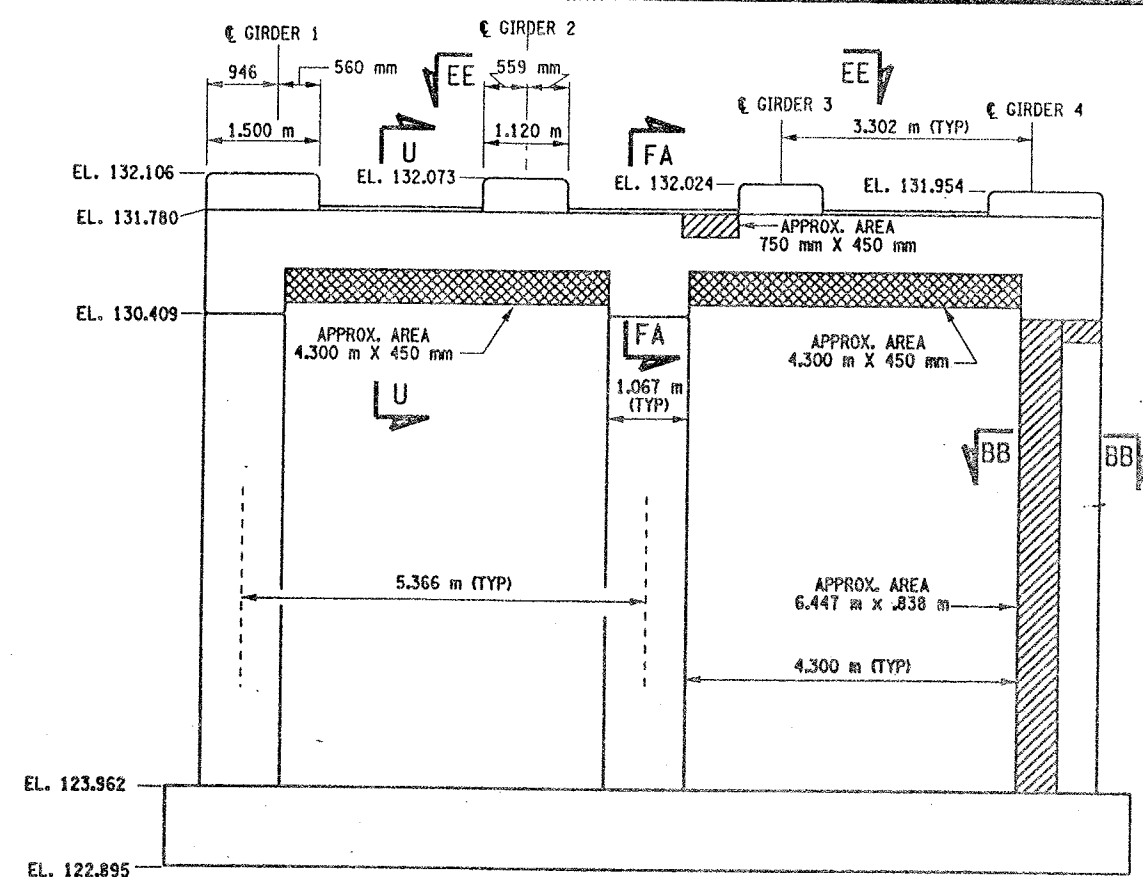
SECTION CC-CC  
NOT TO SCALE

## LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	310	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093571

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-12S FOR SECTION BB-BB.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  - FOR JACKING NOTES SEE DWG. PR17-15.
  - SEE DWG. PR-17-11S FOR SECTION U-U.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 10	

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P10	3	10/02	PR17-145



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DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	311	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
ONONDAGA COUNTY	
P.I.N. 305613	B.I.N. 1093571

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-12S FOR SECTION BB-BB.
  - SEE DWG. PR17-10N FOR SECTION DD-DD.
  - SEE DWG. PR17-11N FOR SECTION FF-FF.
  - SEE DWG. PR17-11S FOR SECTION W-W.
  - PEDESTAL 4 SHALL BE REPLACED TO EXISTING DIMENSIONS, ITEM 555.0105 M.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG. PR17-1S

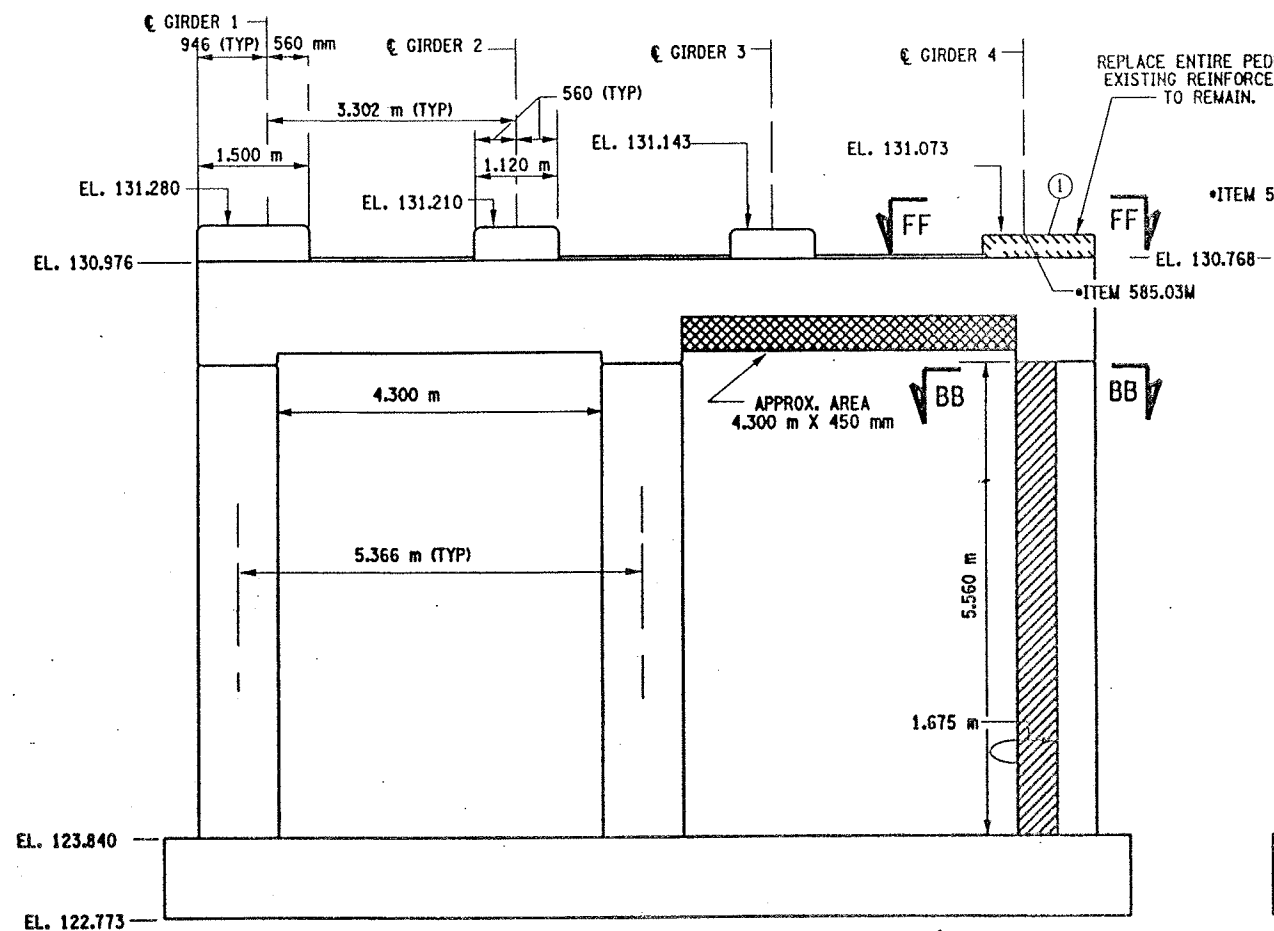
• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

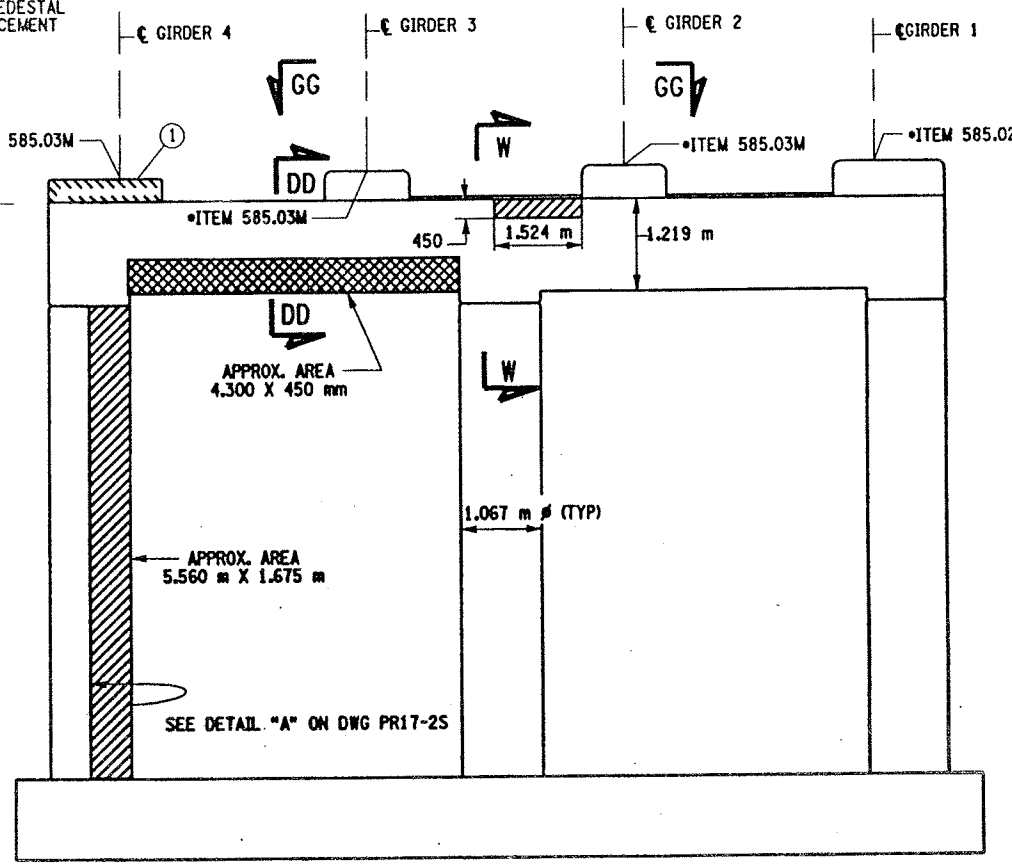
- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)
  - ITEM 580.01 M - REMOVAL OF STRUCTURAL CONCRETE. (CM) AND ITEM 555.0105 M - CONCRETE FOR STRUCTURES CLASS A. (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

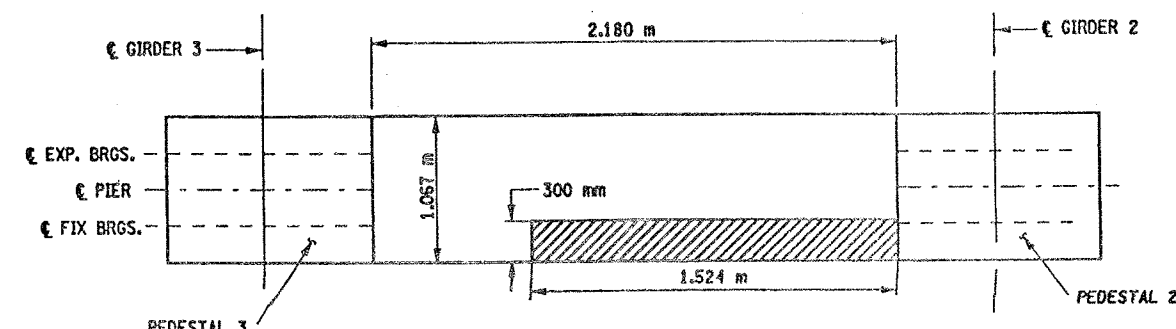
AS BUILT REVISIONS	
SIGNATURE	DATE
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 11	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P11	REGION 3
DATE 10/02	DRAWING NO. PR17-15S



PIER 11 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 11 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50



SECTION G-G  
NOT TO SCALE

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
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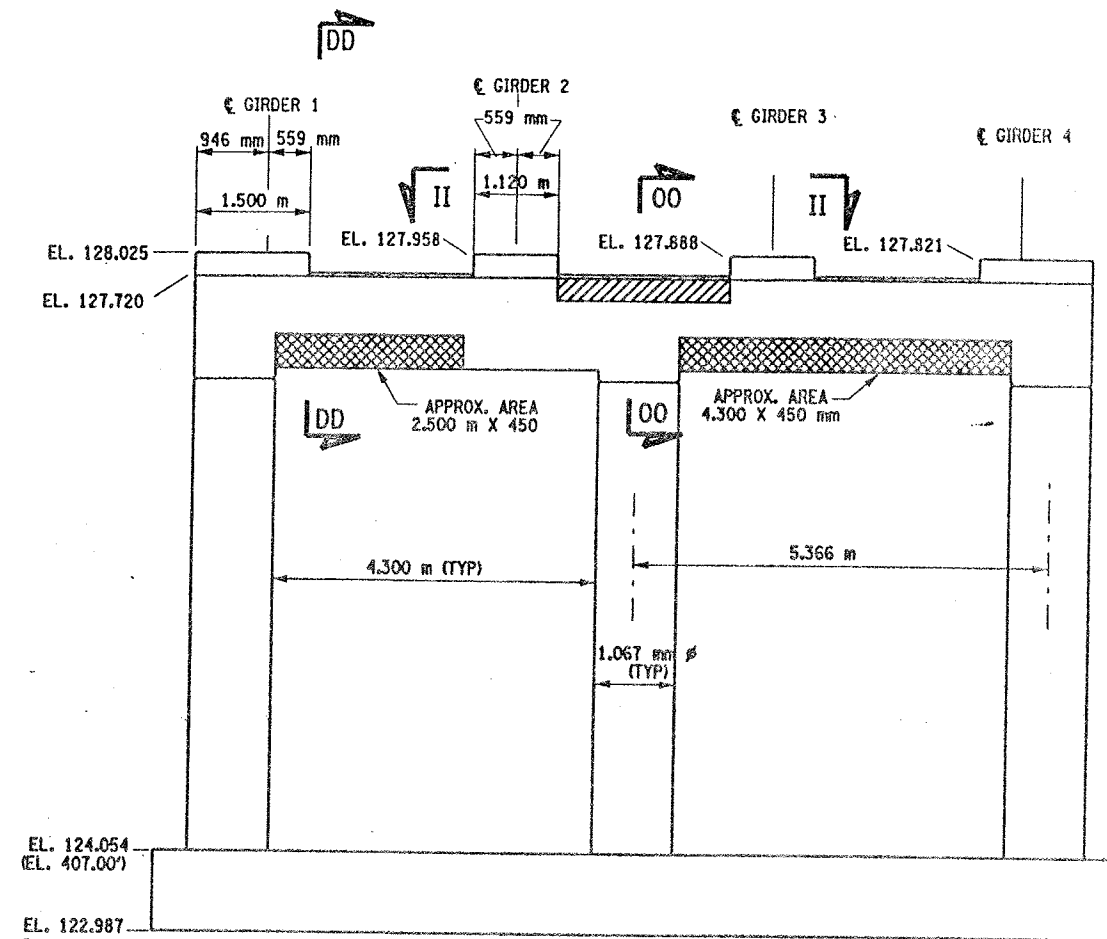
- LIST OF ITEMS USED
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 555.0105M - CONCRETE FOR STRUCTURES, CLASS A (CM)
  - ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L. (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



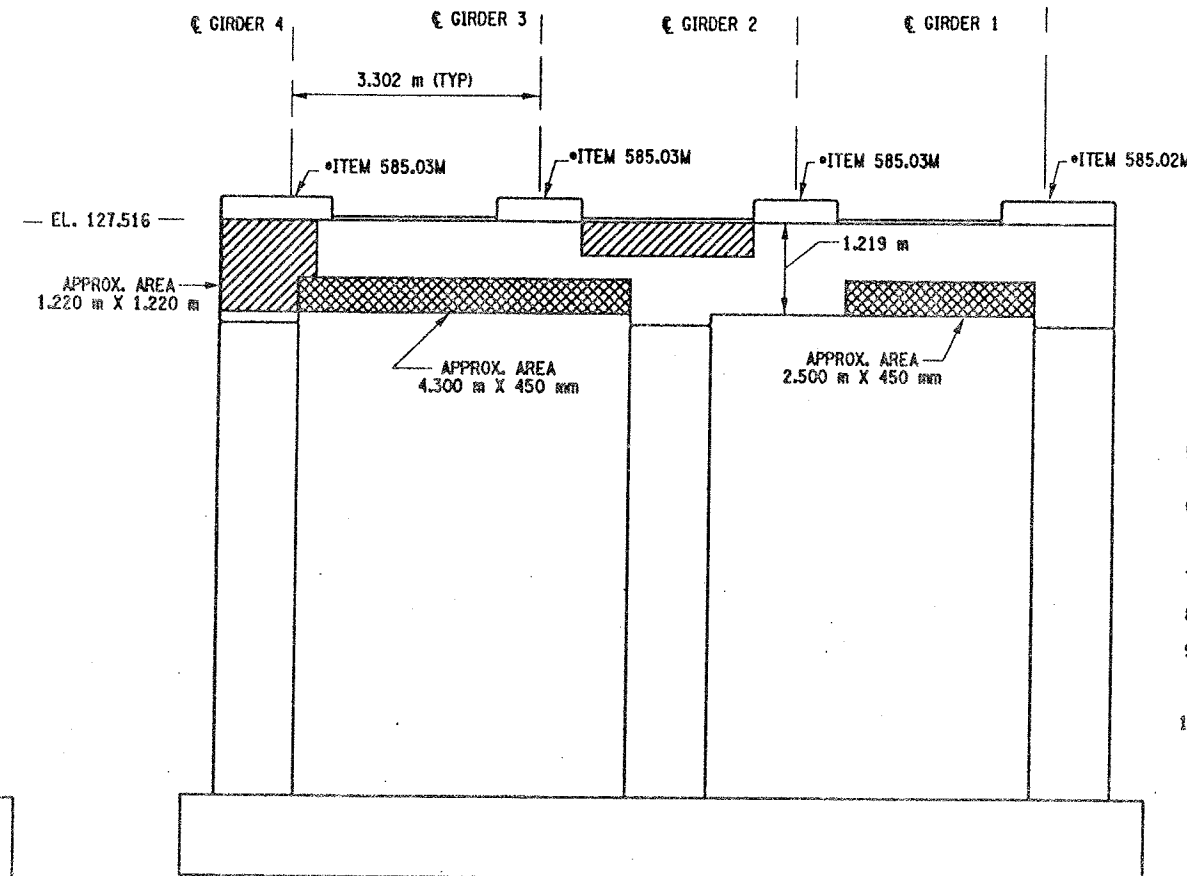
CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	314	432

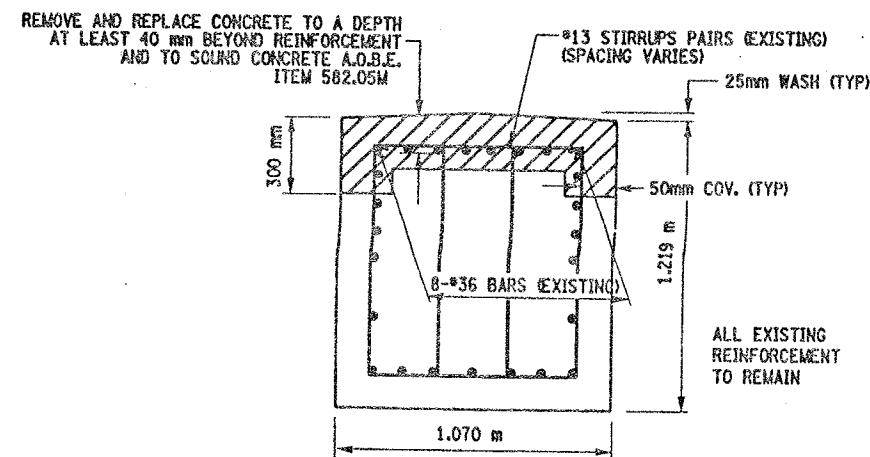
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
ONONDAGA COUNTY	
P.J.N. 305613	B.I.N. 1093571



PIER 14 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 14 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50



SECTION 00-00  
NOT TO SCALE

- NOTES:
1. ALL REINFORCEMENT TO REMAIN.
  2. RESTORE TO ORIGINAL DIMENSIONS.
  3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  7. SEE DWG. PR17-10H FOR SECTION DD-DD.
  8. SEE DWG. PR17-16S FOR SECTION II-II.
  9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  10. FOR JACKING NOTES SEE DWG PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE	DATE		
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 14			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P14	REGION 3	DATE 10/02	DRAWING NO. PR17-18S

LIST OF ITEMS USED:

ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



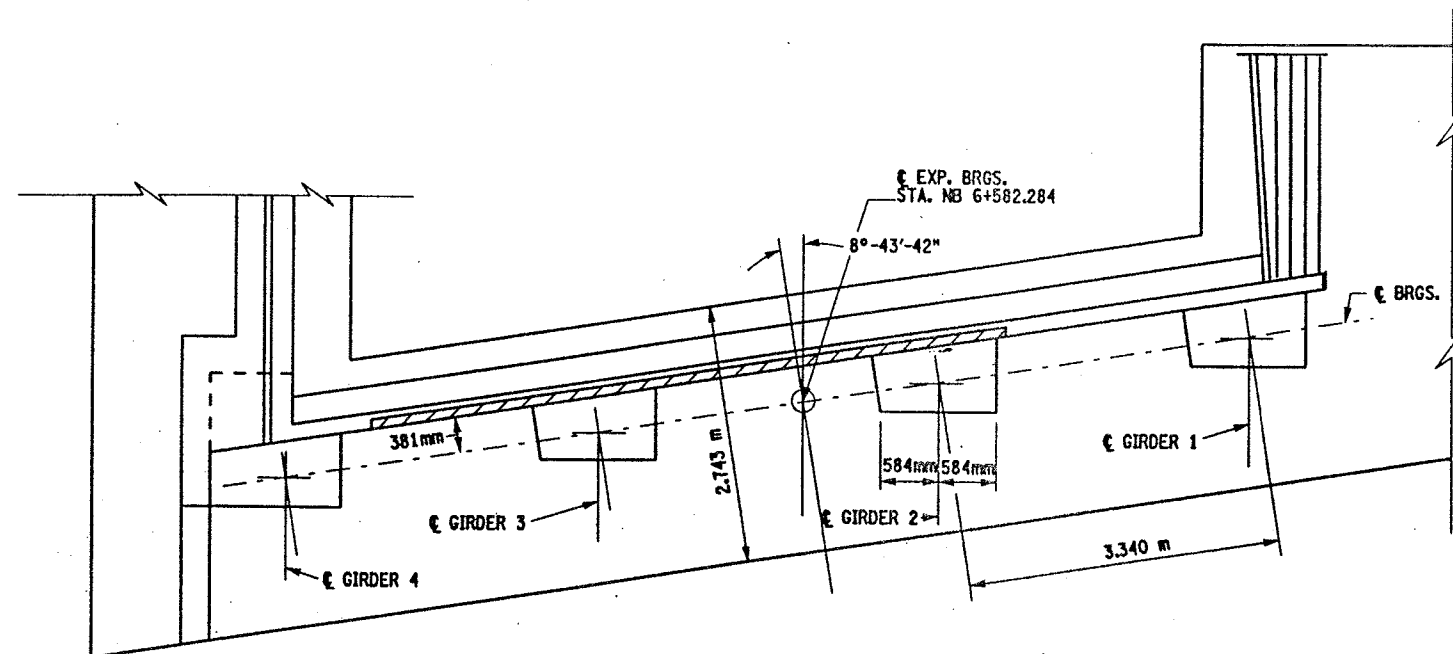
DESIGN SUPERVISOR  
JOB MANAGER  
DESIGNED BY  
CHECKED BY  
ESTIMATED BY  
DRAFTED BY  
CHECKED BY

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	315	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:

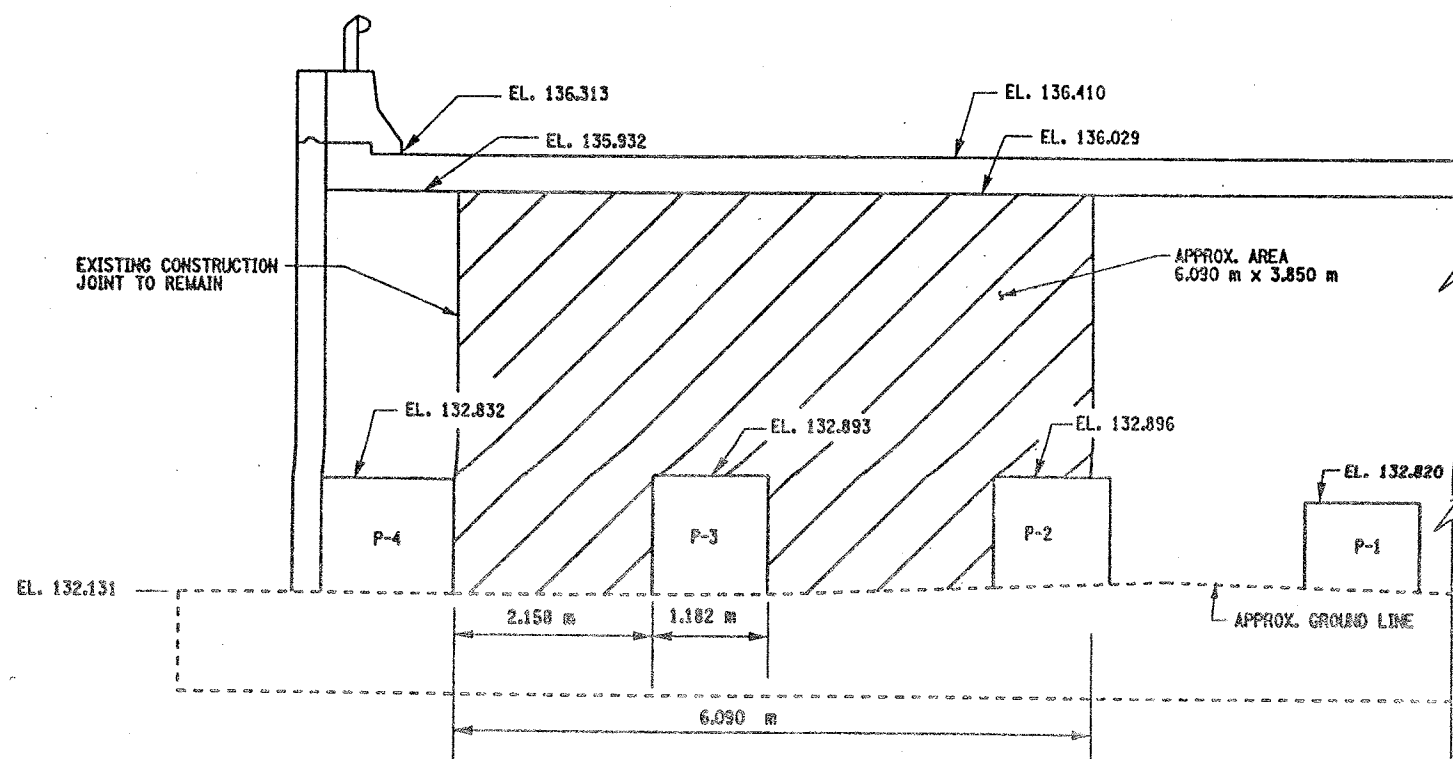
1. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND EIC.
2. REMOVE CONCRETE TO LIMITS SHOWN AS WELL AS TO SOUND CONCRETE, A.O.B.E.
3. WHEN REMOVING EXISTING CONCRETE, SAWCUT 5 mm MIN. TO PRODUCE NEAT REMOVAL LINES. ANY COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 582.05M.
4. INCLUDED IN THE BID PRICE FOR ITEM 582.05M.
5. ALL EXISTING REINFORCEMENT TO REMAIN.
6. ELEVATIONS ARE GIVEN FOR QUANTITY ESTIMATES ONLY.
7. REFER TO CONTRACT D250094 FOR ORIGINAL CONSTRUCTION DETAILS.

AREAS OF PROPOSED WORK: ITEM 582.05M  
REMOVAL OF STRUCTURAL CONCRETE-  
REPLACEMENT WITH CLASS A CONCRETE (CM)



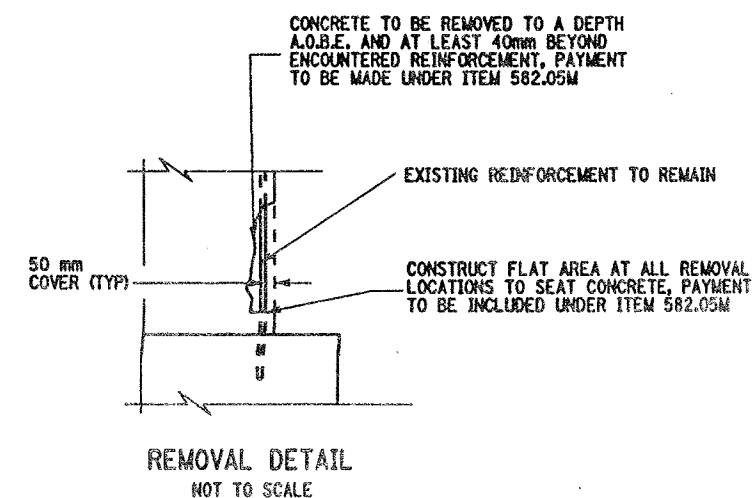
SOUTH ABUTMENT  
PLAN

SCALE 1:40



SOUTH ABUTMENT  
ELEVATION

SCALE 1:40



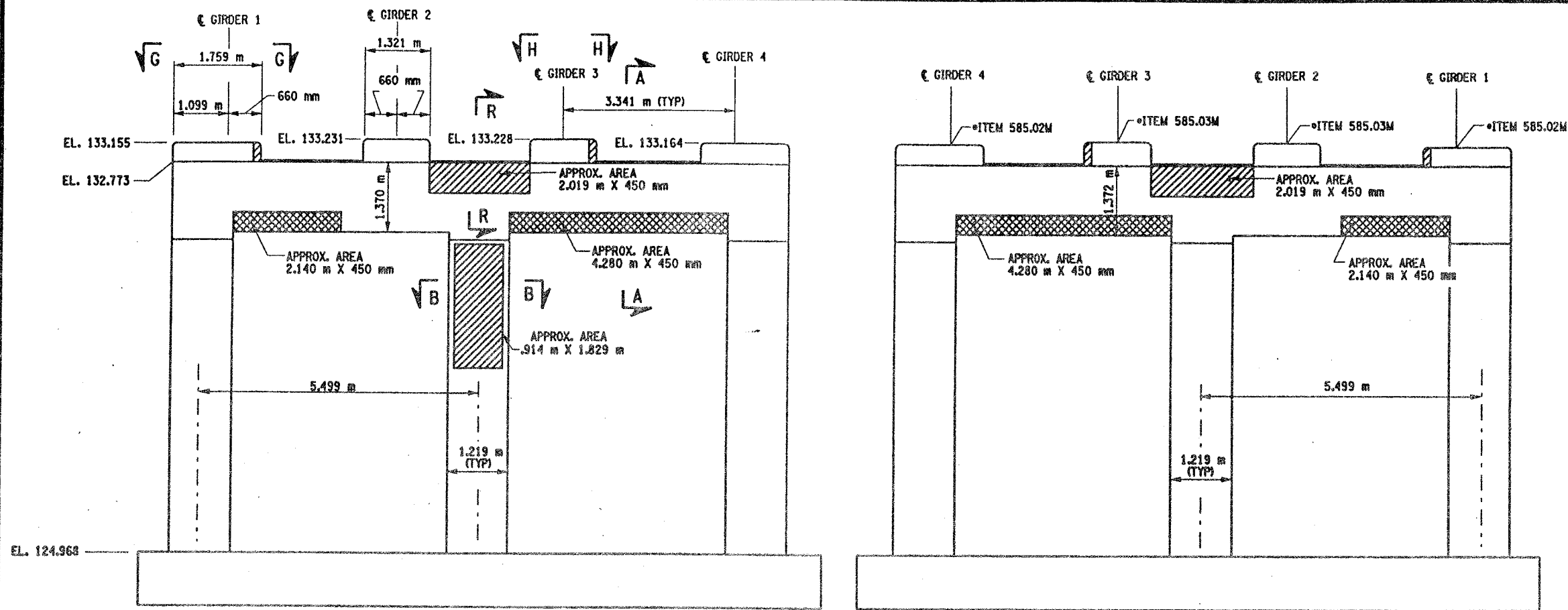
LIST OF ITEMS USED:  
ITEM 582.05M - REMOVE STRUCTURAL CONCRETE  
WITH CLASS A CONCRETE (CM)

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481 NB OVER CSX RAILROAD SOUTH ABUTMENT			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.A1B	REGION 3	DATE 10/02	DRAWING NO. AB17-1

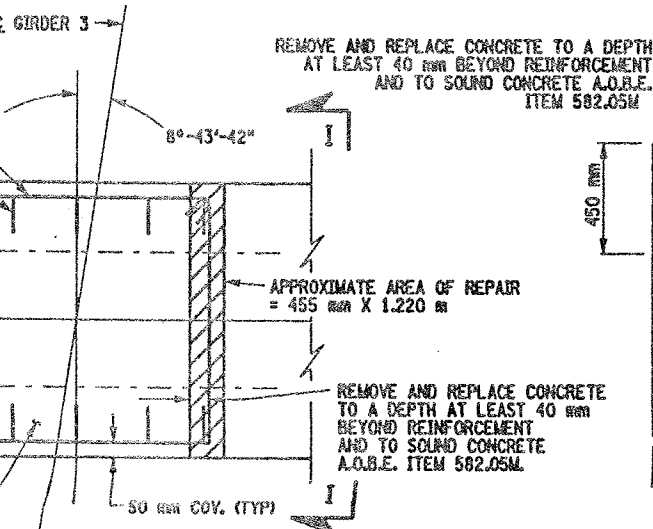
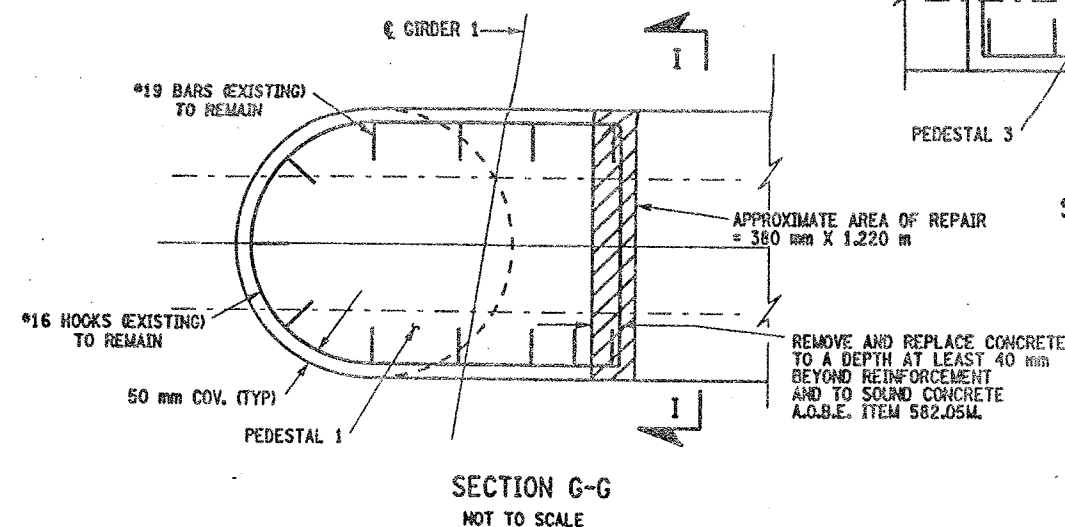
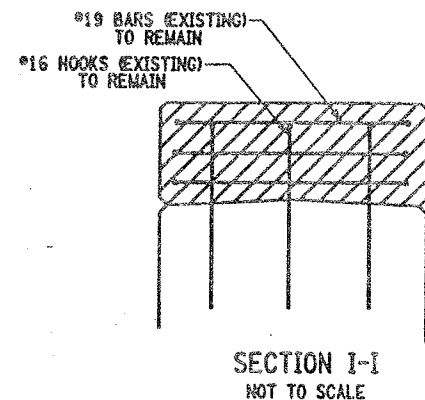


CHECKED BY  
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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



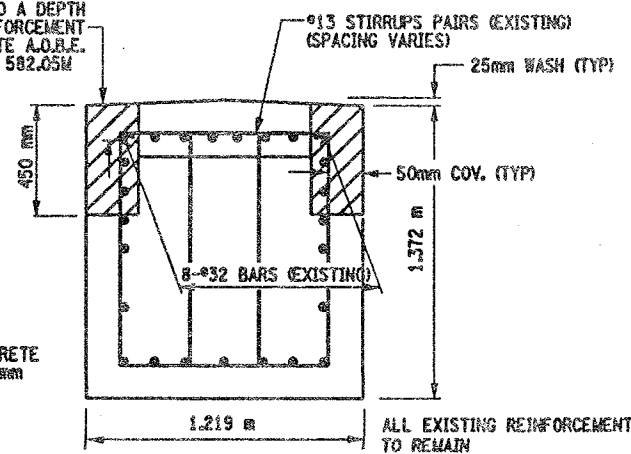
PIER 1 - FRONT FACE (LOOKING NORTH)

BIN 1093572  
SCALE: 1 TO 50



PIER 1 - BACK FACE (LOOKING SOUTH)

BIN 1093572  
SCALE: 1 TO 50



LIST OF ITEMS USED:

ITEM 15565.4302 - BRIDGE BEARING RESTORATION  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	316	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.J.L. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES.
8. FOR SECTION A-A AND B-B SEE DWG. PR17-25.
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
10. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
11. FOR JACKING NOTES SEE DWG. PR17-15.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 1	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P1A	REGION 3
DATE 10/02	DRAWING NO. PR17-1N



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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	317	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

- NOTES:
1. ALL REINFORCEMENT TO REMAIN.
  2. RESTORE TO ORIGINAL DIMENSIONS.
  3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
  8. SEE DWG. PR17-2S FOR SECTION A-A, D-D AND DETAIL "A".
  9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  10. FOR JACKING NOTES SEE DWG. PR17-1S
  11. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL (CM)

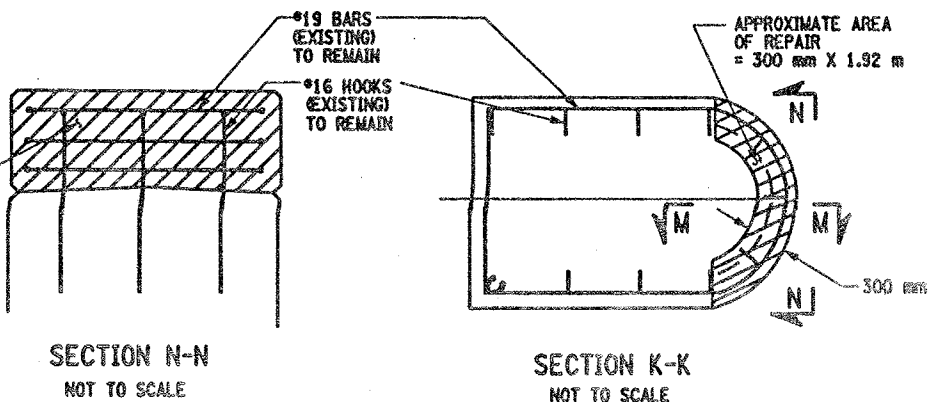
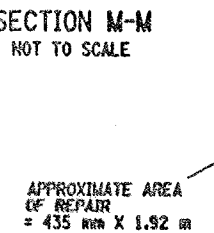
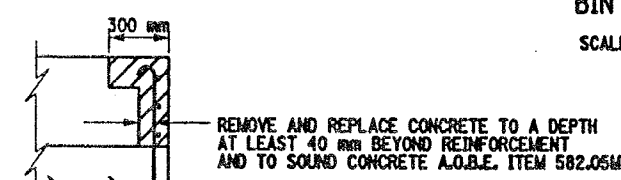
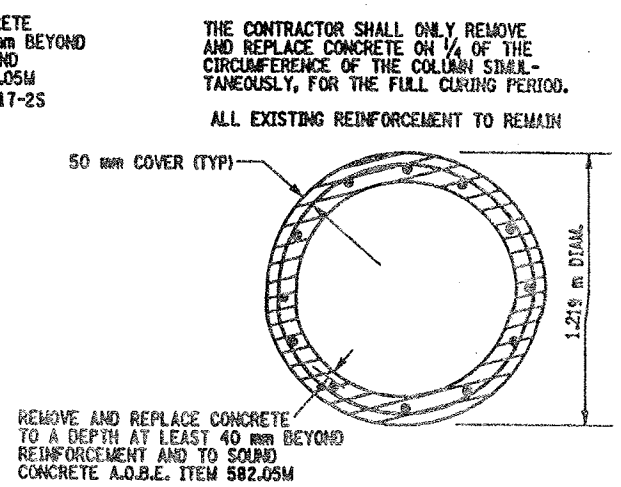
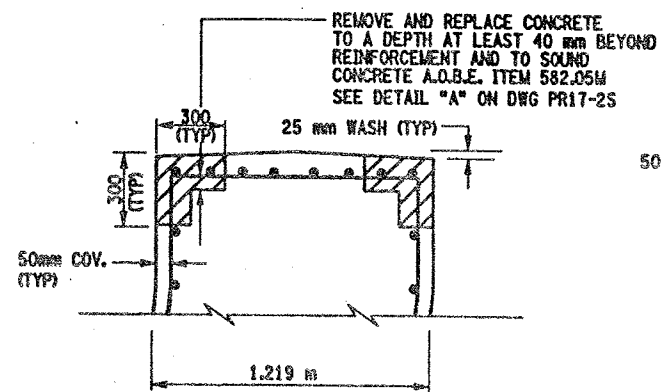
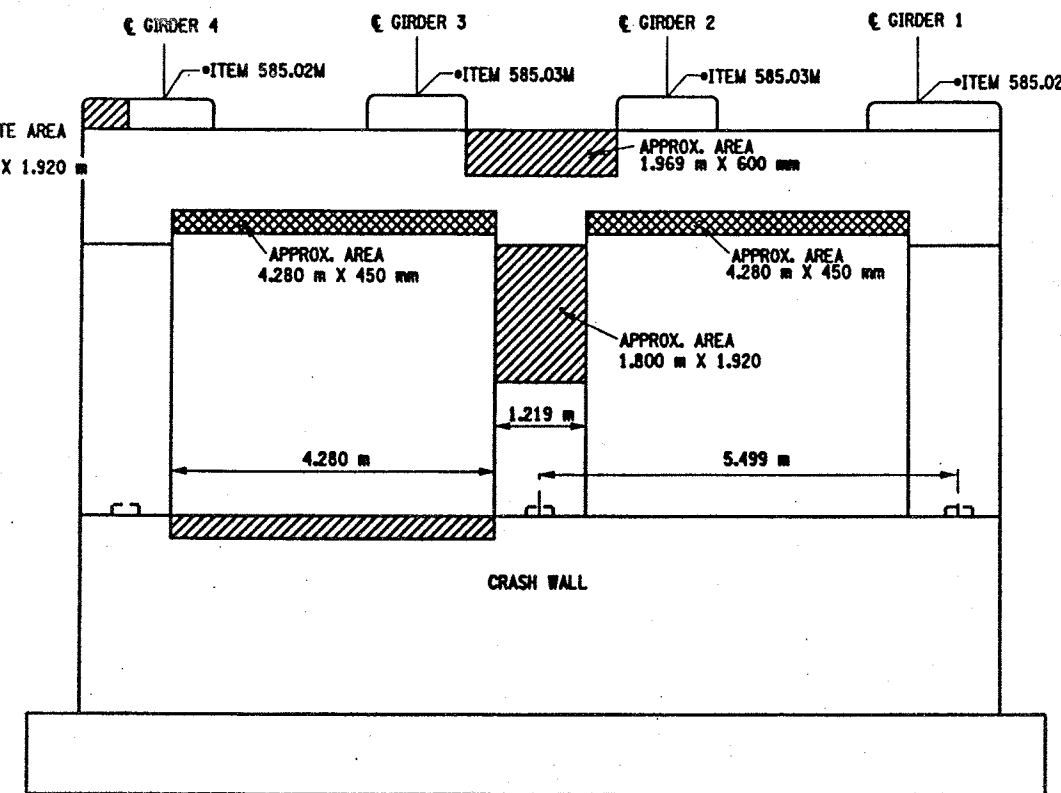
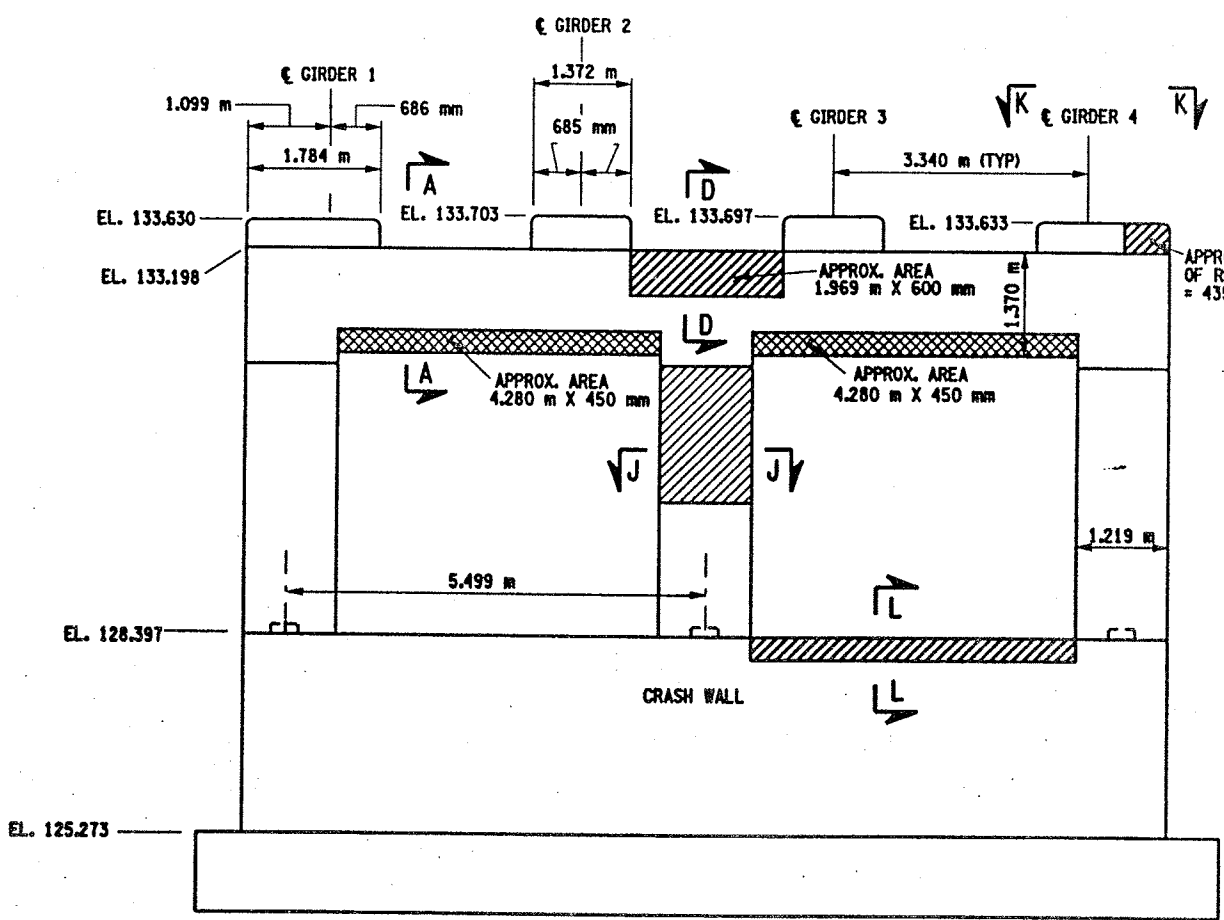
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 2	

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P2A	3	10/02	PR17-2N





- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (CA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MATL. (CM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (CA)




1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.L.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS), SEE DWG BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
8. SEE DWG. PR17-2S FOR SECTIONS A-A, D-D AND DETAIL "A"
9. SEE DWG. PR17-2N FOR SECTION J-J
10. PEDESTAL 4 SHALL BE REPLACED TO EXISTING DIMENSIONS. ITEM 555.010S M
11. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
12. FOR JACKING NOTES SEE DWG. PR17-1S
13. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAPBEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

**JACKING LOADS:**  
D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

 ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (C&D)

 ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL (C&D)

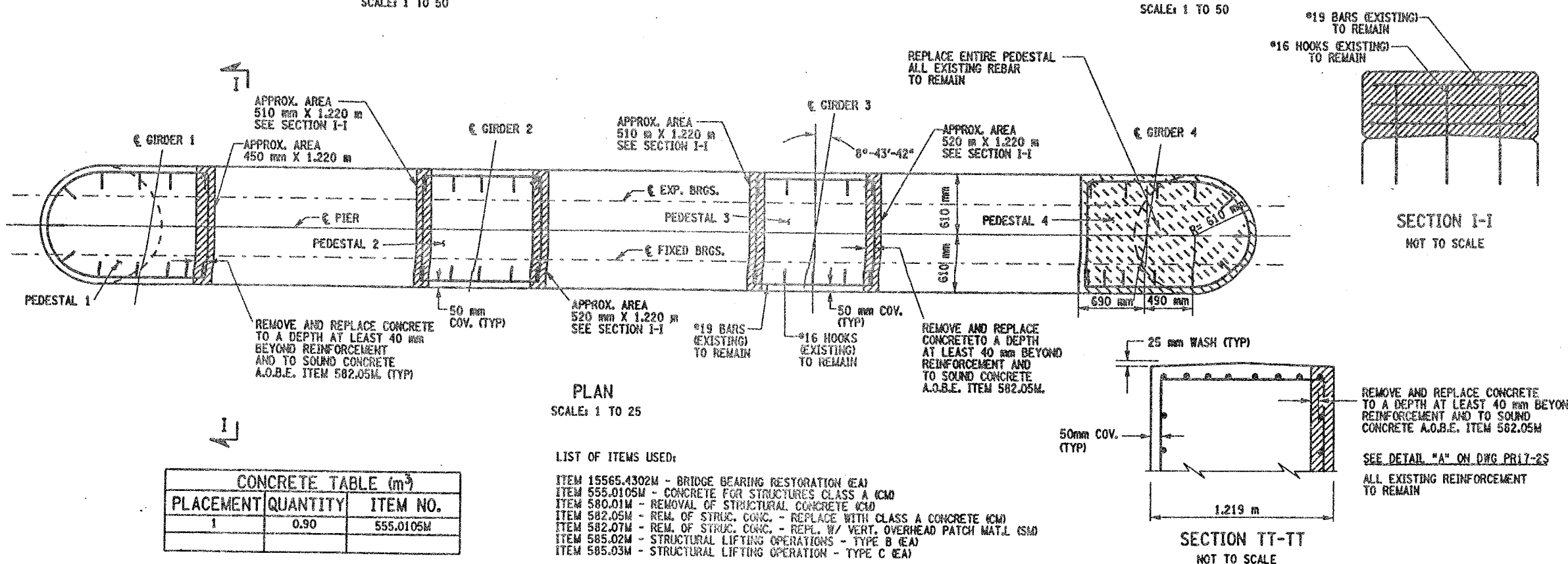
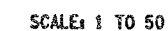
 ITEM 580.01 M - REMOVAL OF STRUCTURAL CONCRETE (C&D) AND ITEM 555.0105 M - CONCRETE FOR STRUCTURES CLASS A (C&D)

AS BUILT REVISIONS

INTERSTATE 401 NB  
OVER  
CSX RAILROAD YARD  
PIER 3

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

DESIGN SUPERVISOR \_\_\_\_\_ JOB MANAGER \_\_\_\_\_ DESIGNED BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_ ESTIMATED BY \_\_\_\_\_ DRAFTED BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_





CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	319	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
ONONDAGA COUNTY	
P.I.N. 305613	B.I.N. 1093572

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 AND BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
  - SEE DWG. PR17-2S FOR SECTIONS A-A, D-D AND DETAIL "A".
  - SEE DWG. PR17-4S FOR SECTION O-O.
  - SEE DWG. PR17-2N FOR SECTION L-L.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG. PR17-1S.
  - CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

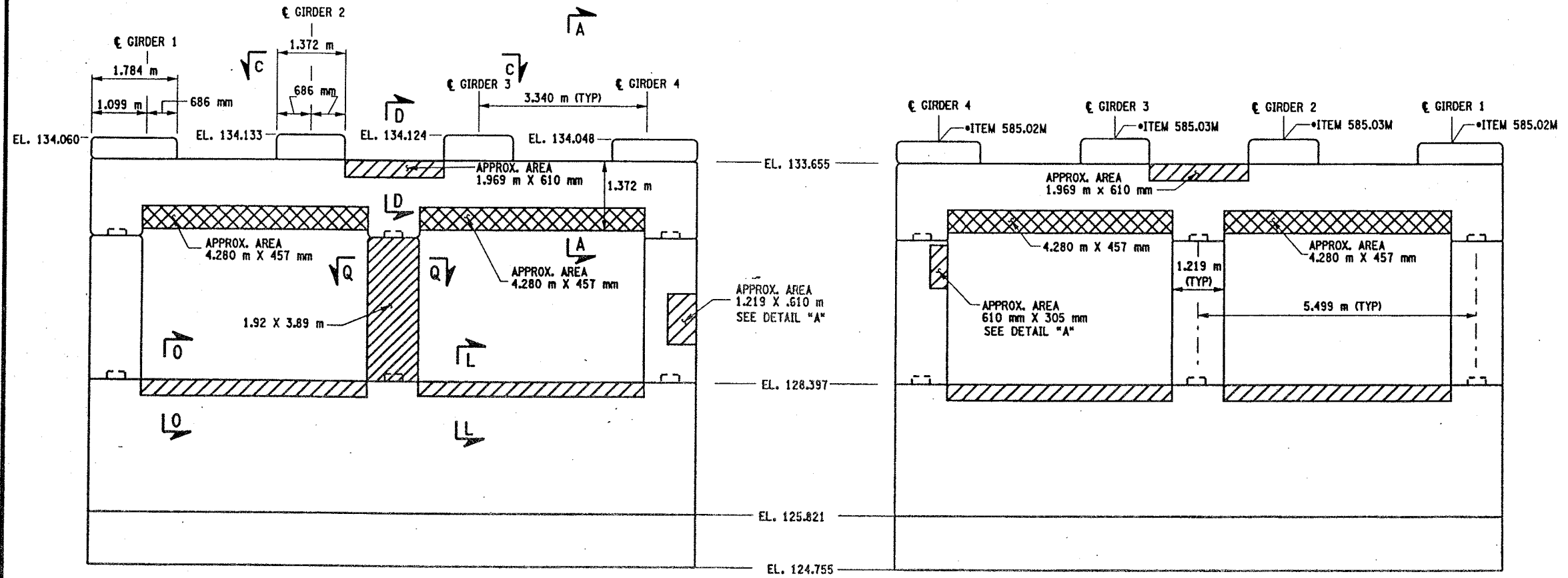
• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

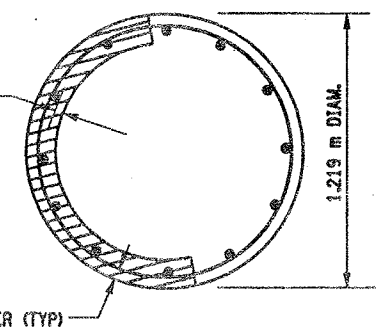
- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONC. REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

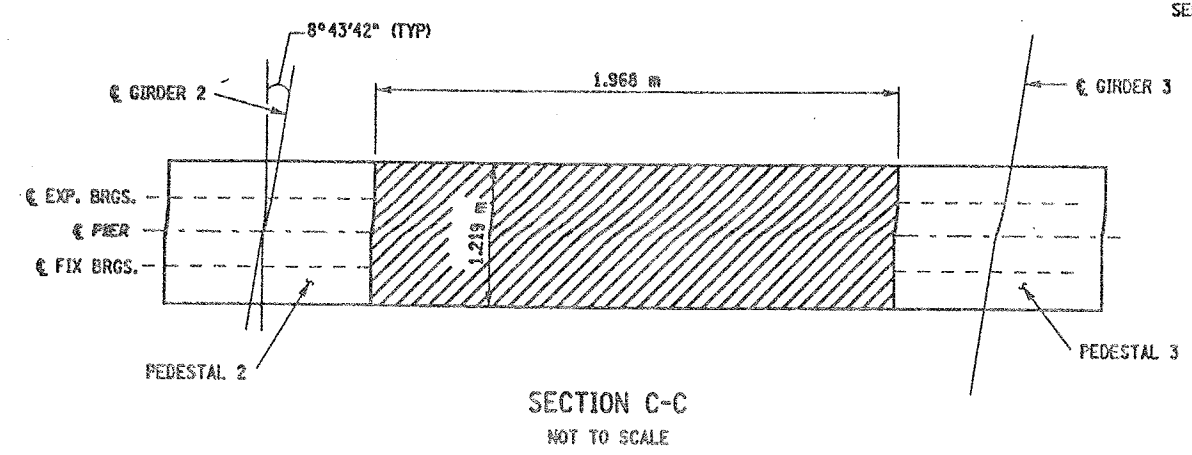
AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 NB OVER CSX RAILROAD PIER 4			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P4A	REGION 3	DATE 10/02	DRAWING NO. PR17-4N



REMOVE AND REPLACE CONCRETE TO A DEPTH AT LEAST 40 mm BEYOND REINFORCEMENT AND TO SOUND CONCRETE A.O.B.E. ITEM 582.05M SEE DETAIL "A" THIS SHEET



THE CONTRACTOR SHALL ONLY REMOVE AND REPLACE CONCRETE ON 1/4 OF THE CIRCUMFERENCE OF THE COLUMN SIMULTANEOUSLY, FOR THE FULL CURING PERIOD.



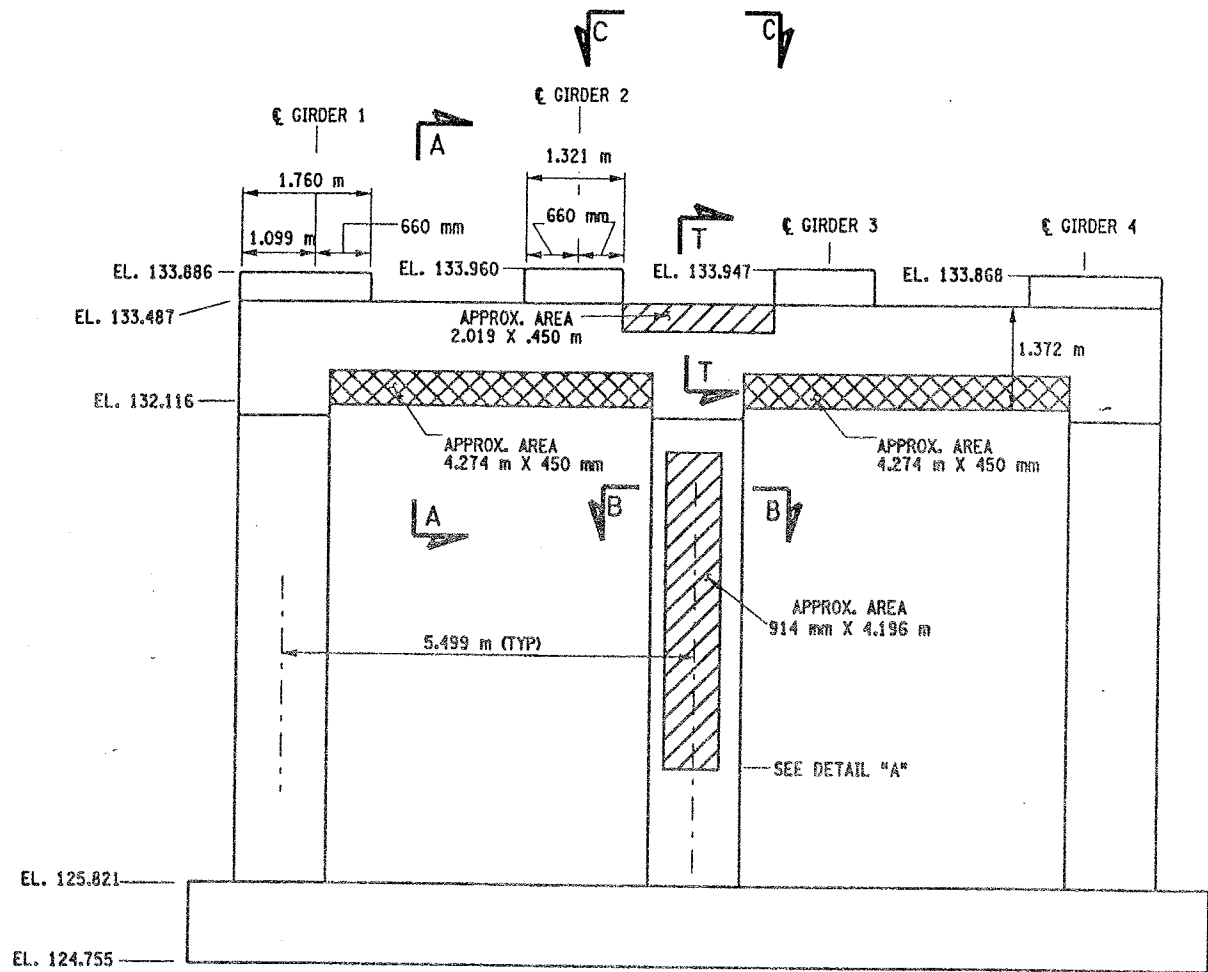
- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/VERT. OVERHEAD PATCH MAT'L (CM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



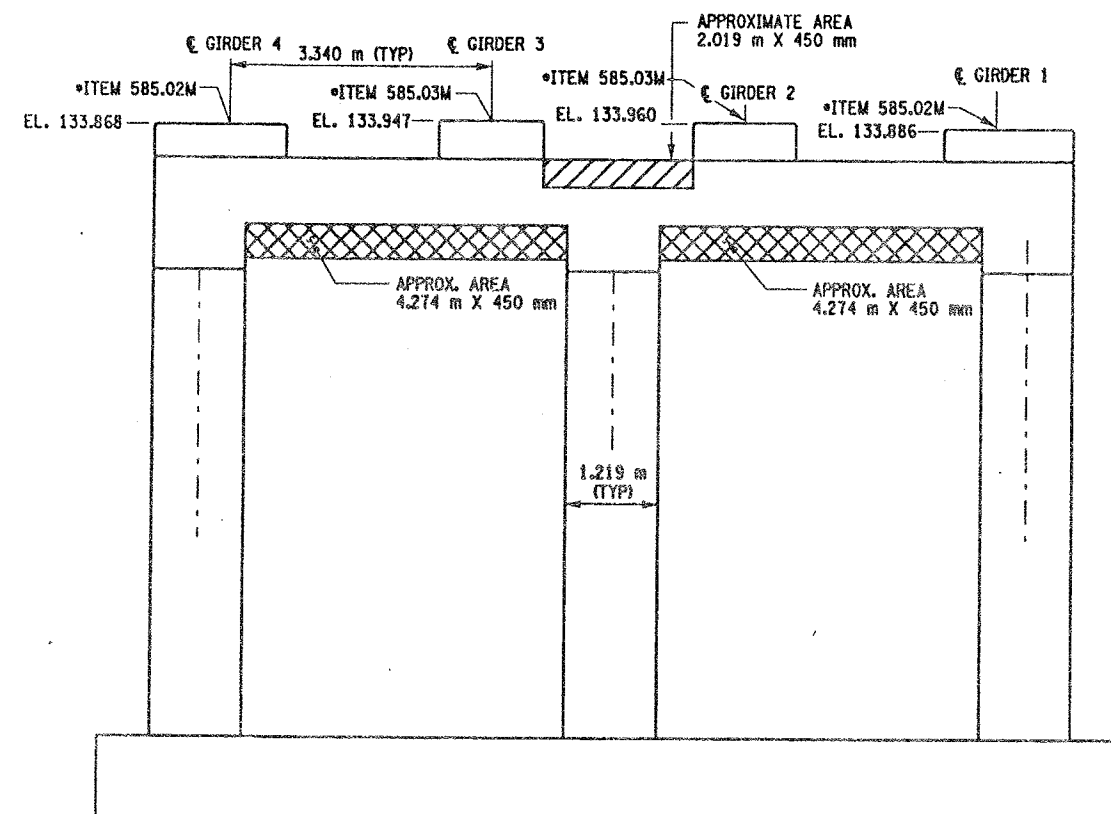
CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	320	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

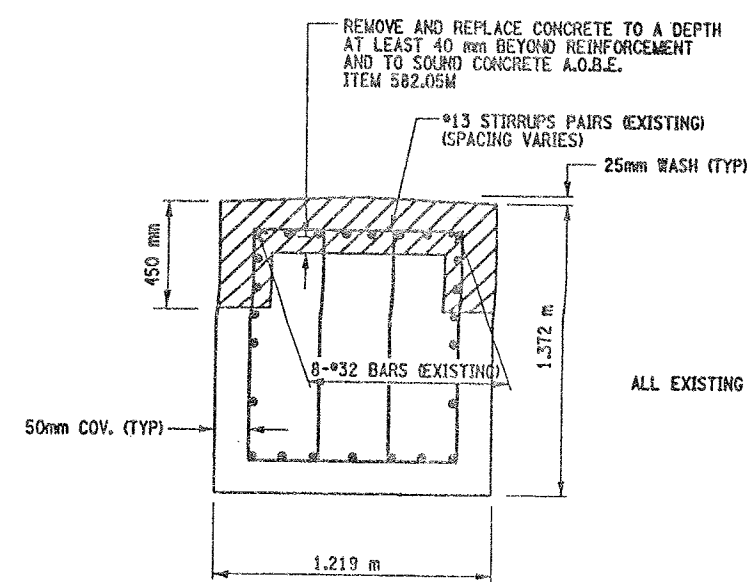
- NOTES:
1. ALL REINFORCEMENT TO REMAIN.
  2. RESTORE TO ORIGINAL DIMENSIONS.
  3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
  8. SEE DWG. PR17-2S FOR SECTION A-A AND B-B AND DETAIL "A".
  9. SEE DWG. PR17-1S FOR SECTION C-C.
  10. ALL CONCRET REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  11. FOR JACKING NOTES SEE DWG. PR17-1S.
  12. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS OF CONTRACT.



PIER 5 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50



PIER 5 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50



SECTION T-T  
NOT TO SCALE

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
O.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

ALL EXISTING REINFORCEMENT TO REMAIN

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (CM)

- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (CM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

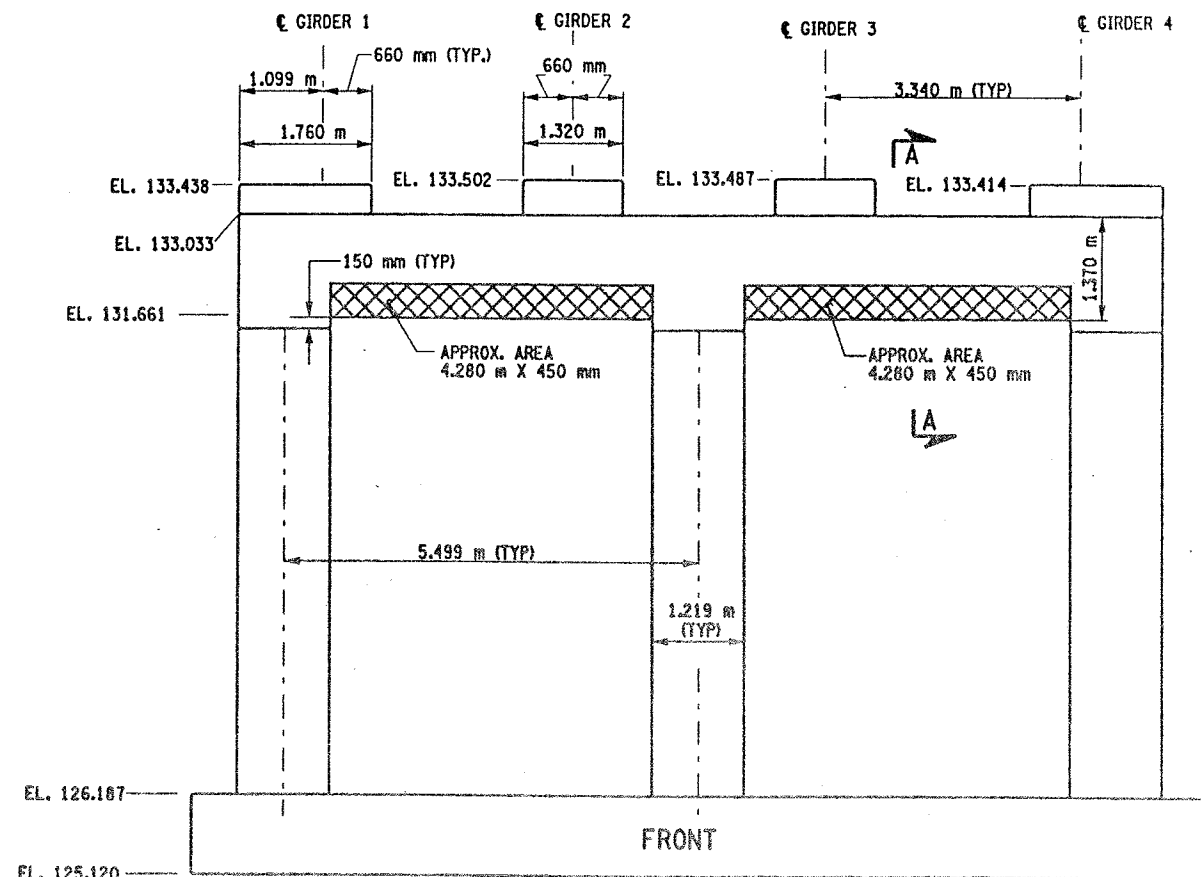
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 5			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P5A	REGION 3	DATE 10/02	DRAWING NO. PR17-5M



DESIGN SUPERVISOR  
JOB MANAGER  
DESIGNED BY  
CHECKED BY  
ESTIMATED BY  
DRAFTED BY  
CHECKED BY

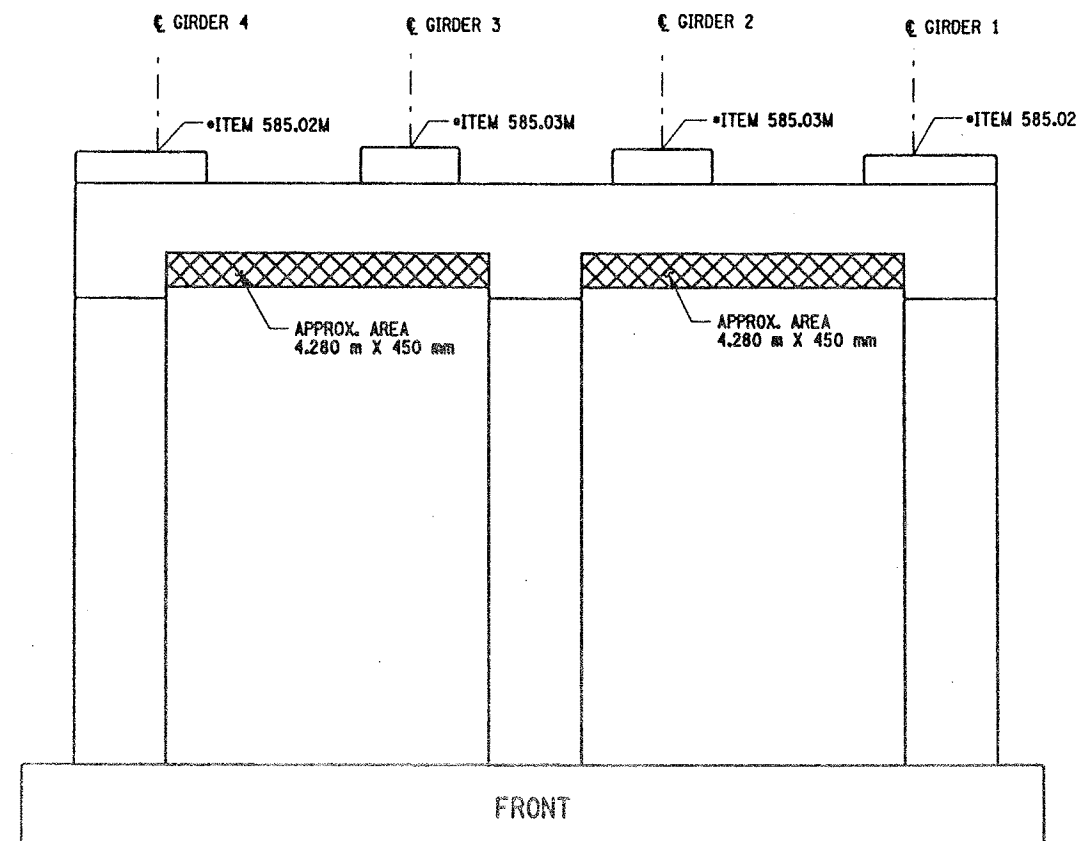
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	321	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	



PIER 6 -FRONT FACE (LOOKING NORTH)

BIN 1093572

SCALE: 1 TO 50



PIER 6 BACK FACE (LOOKING SOUTH)

BIN 1093572

SCALE: 1 TO 50

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
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8. SEE DWG. PR17-25 FOR SECTION "A-A".
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
10. FOR JACKING NOTES SEE DWG. PR17-15.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND



ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 NB  
OVER  
CSX RAILROAD YARD  
PIER 6



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.  
305613AE.P6A 3 10/02 PR17-6N

LIST OF ITEMS USED:

ITEM 15565.4302M- BRIDGE BEARING RESTORATION (EA)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	322	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
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7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
9. FOR JACKING NOTES SEE DWG. PR17-15.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

NOT TO SCALE

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

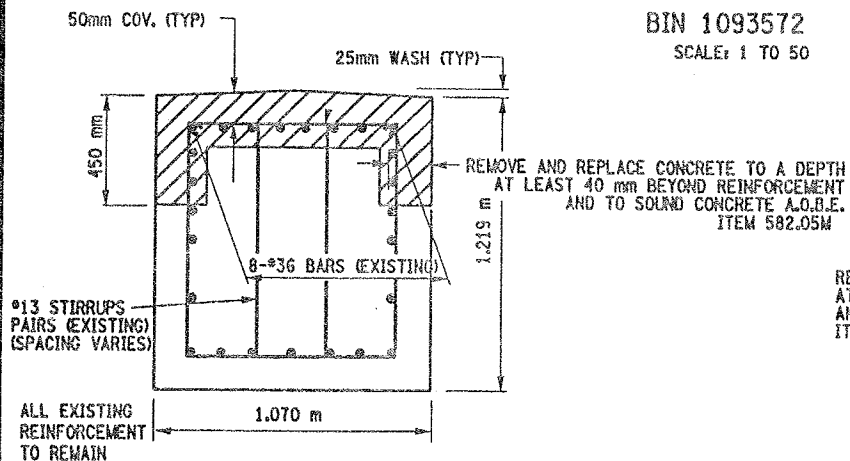
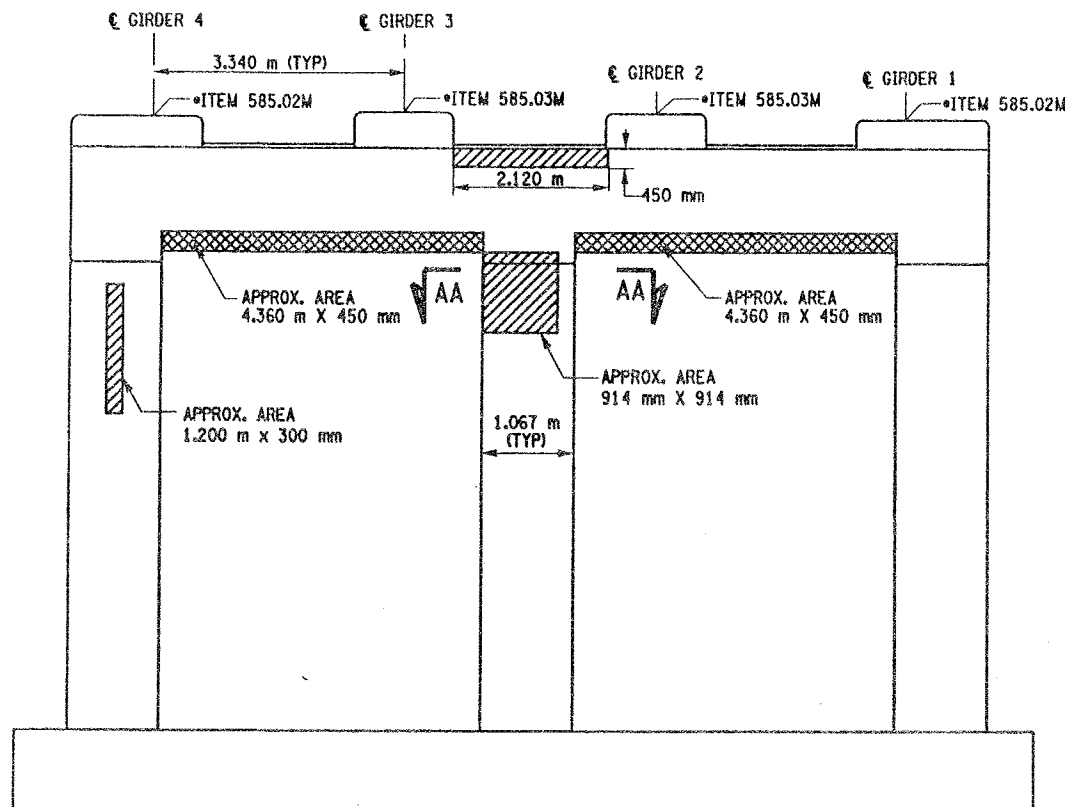
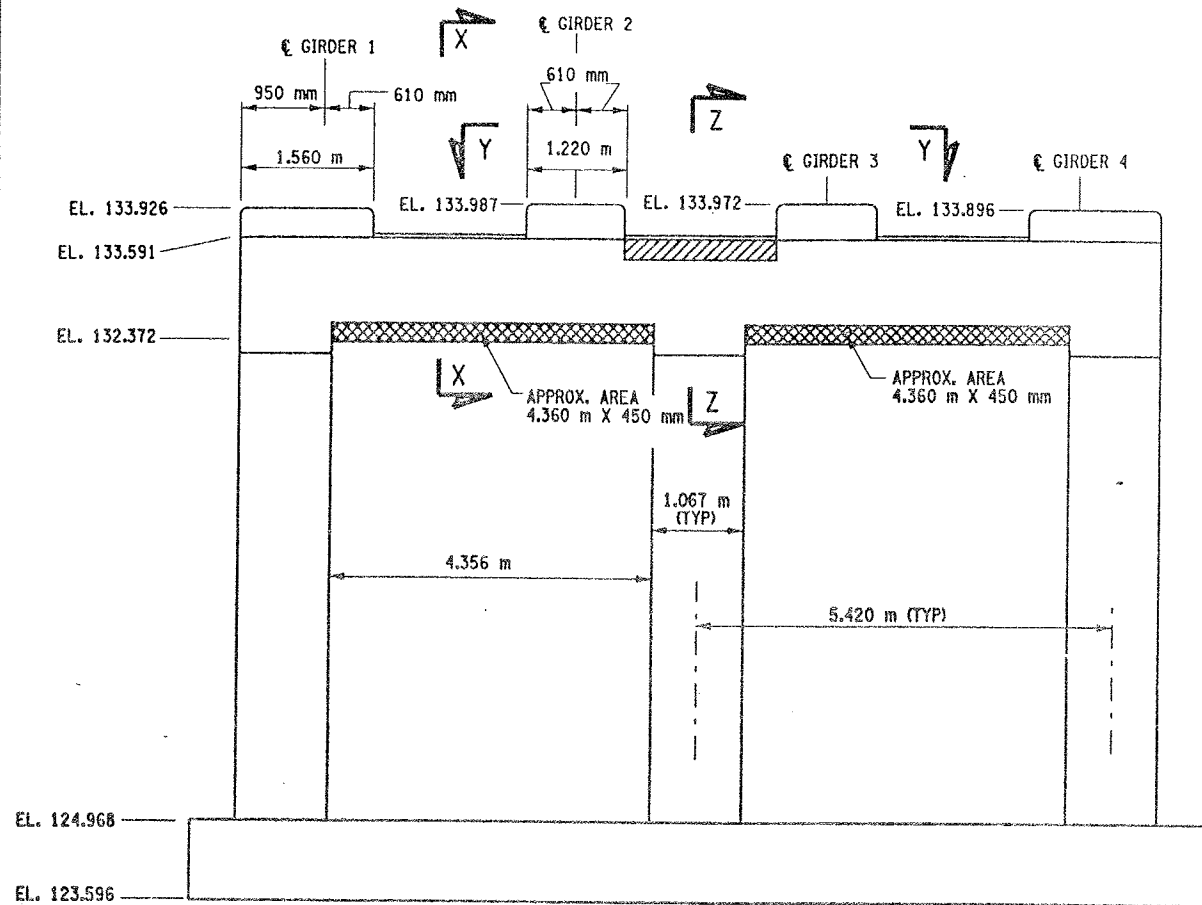
SIGNATURE

DATE

INTERSTATE 481 NB  
OVER  
CSX RAILROAD YARD  
PIER 7

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

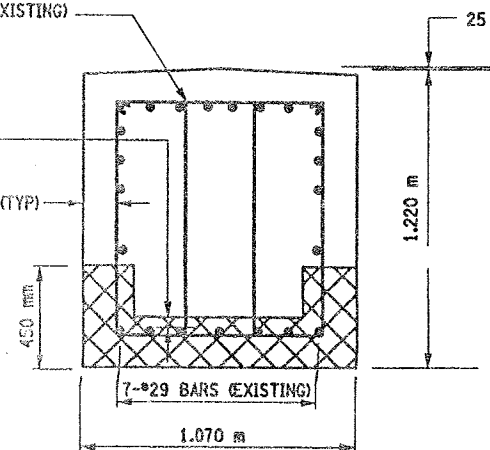
FILENAME	REGION	DATE	DRAWING NO.
305613AE.PTA	3	10/02	PR17-7N



#13 STIRRUPS PAIRS (EXISTING)  
(SPACING VARIES)

REMOVE AND REPLACE CONCRETE TO A DEPTH  
AT LEAST 40 mm BEYOND REINFORCEMENT  
AND TO SOUND CONCRETE A.O.B.E.  
ITEM 582.07M

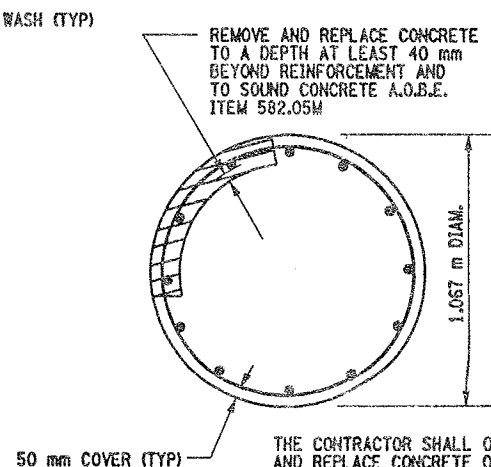
50mm COV. (TYP)



ALL EXISTING REINFORCEMENT TO REMAIN

SECTION X-X

NOT TO SCALE



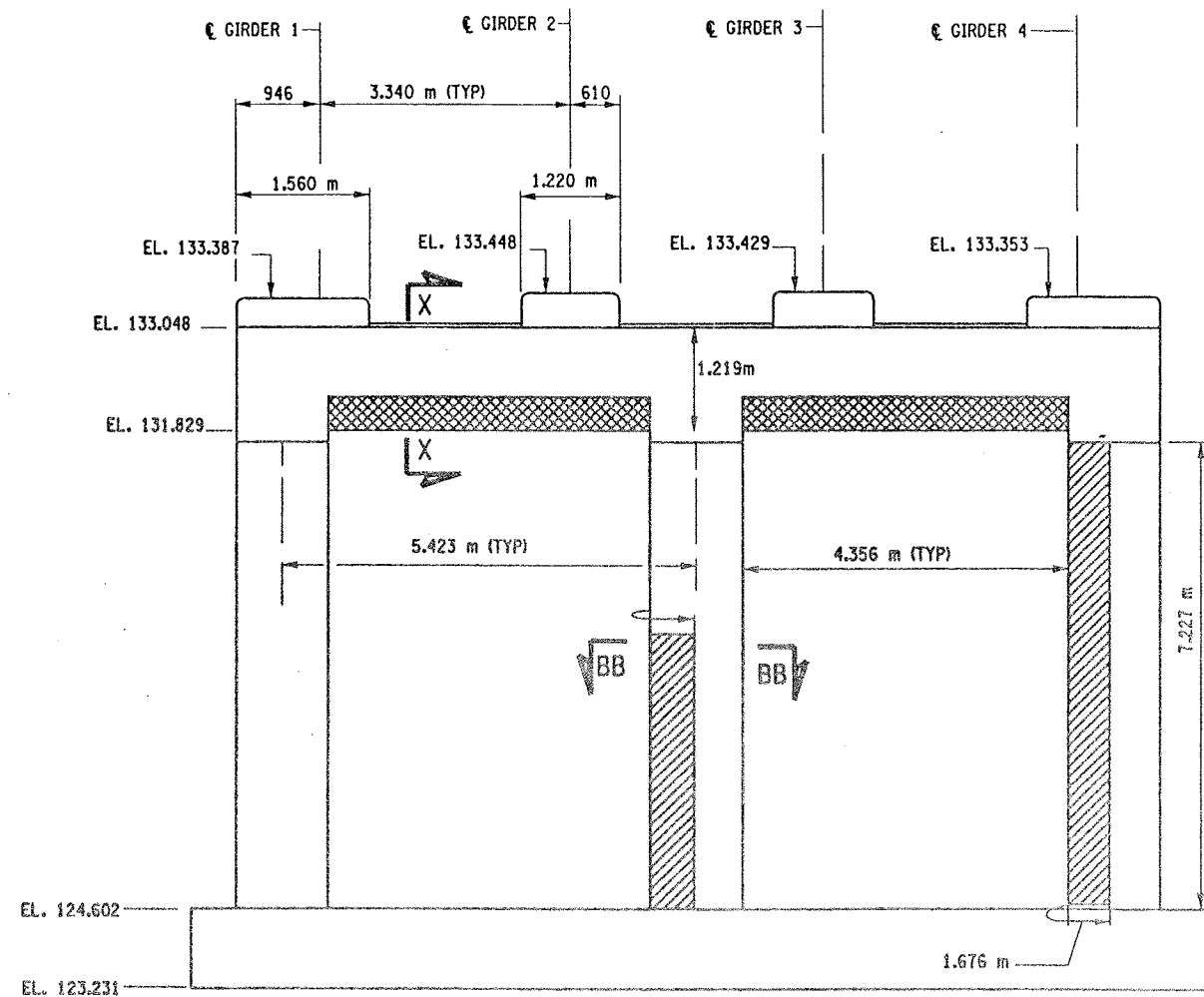
SECTION AA-AA

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

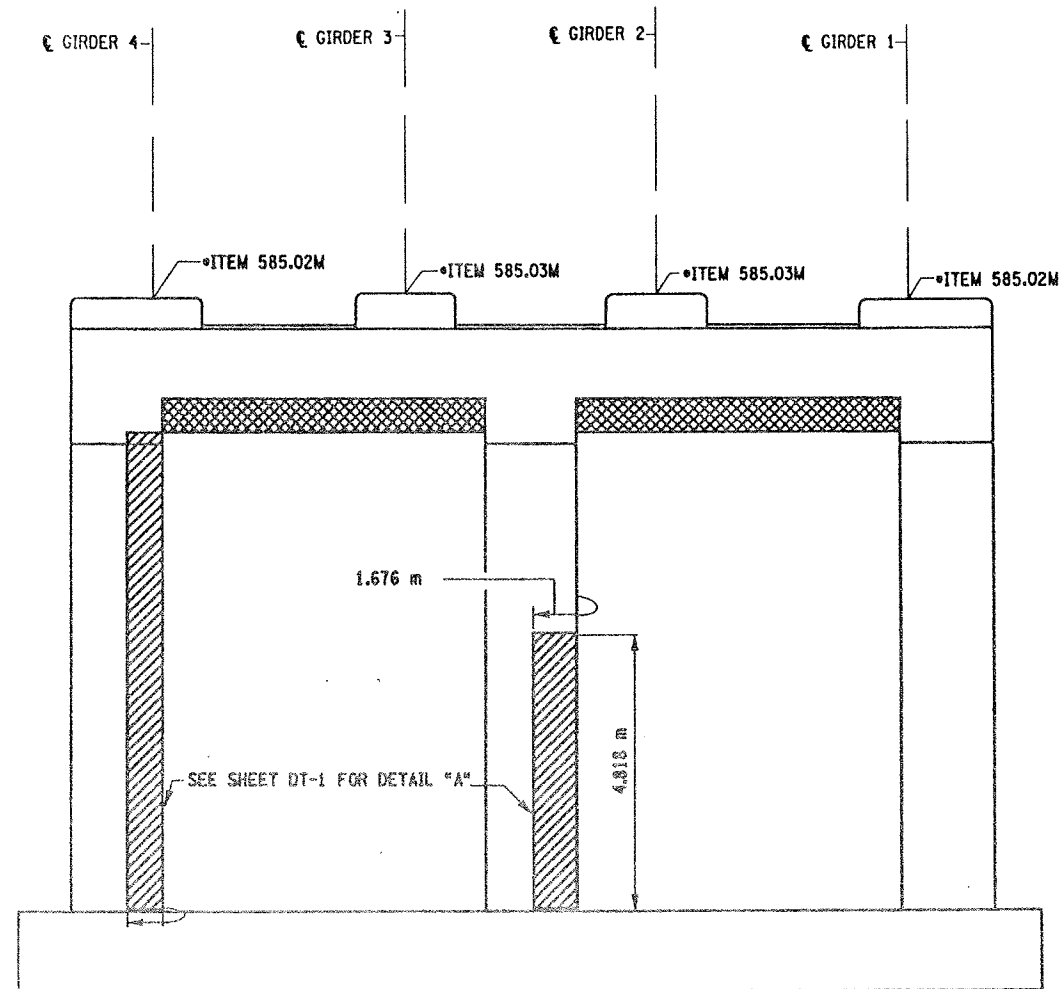


DESIGN SUPERVISOR  
DESIGNED BY  
CHECKED BY  
ESTIMATED BY  
DRAFTED BY  
CHECKED BY



PIER 8 - FRONT FACE (LOOKING NORTH)

BIN 1093572  
SCALE: 1 TO 50



PIER 8 - BACK FACE (LOOKING SOUTH)

BIN 1093572  
SCALE: 1 TO 50

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EAI)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EAI)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EAI)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	323	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:

- ALL REINFORCEMENT TO REMAIN.
- RESTORE TO ORIGINAL DIMENSIONS.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
- ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
- REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
- PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
- SEE DWG. PR17-12S FOR SECTION BB-BB.
- SEE DWG. PR17-7N FOR SECTION X-X.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
- FOR JACKING NOTES SEE DWG PR17-1S.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 NB  
OVER  
CSX RAILROAD YARD  
PIER 8

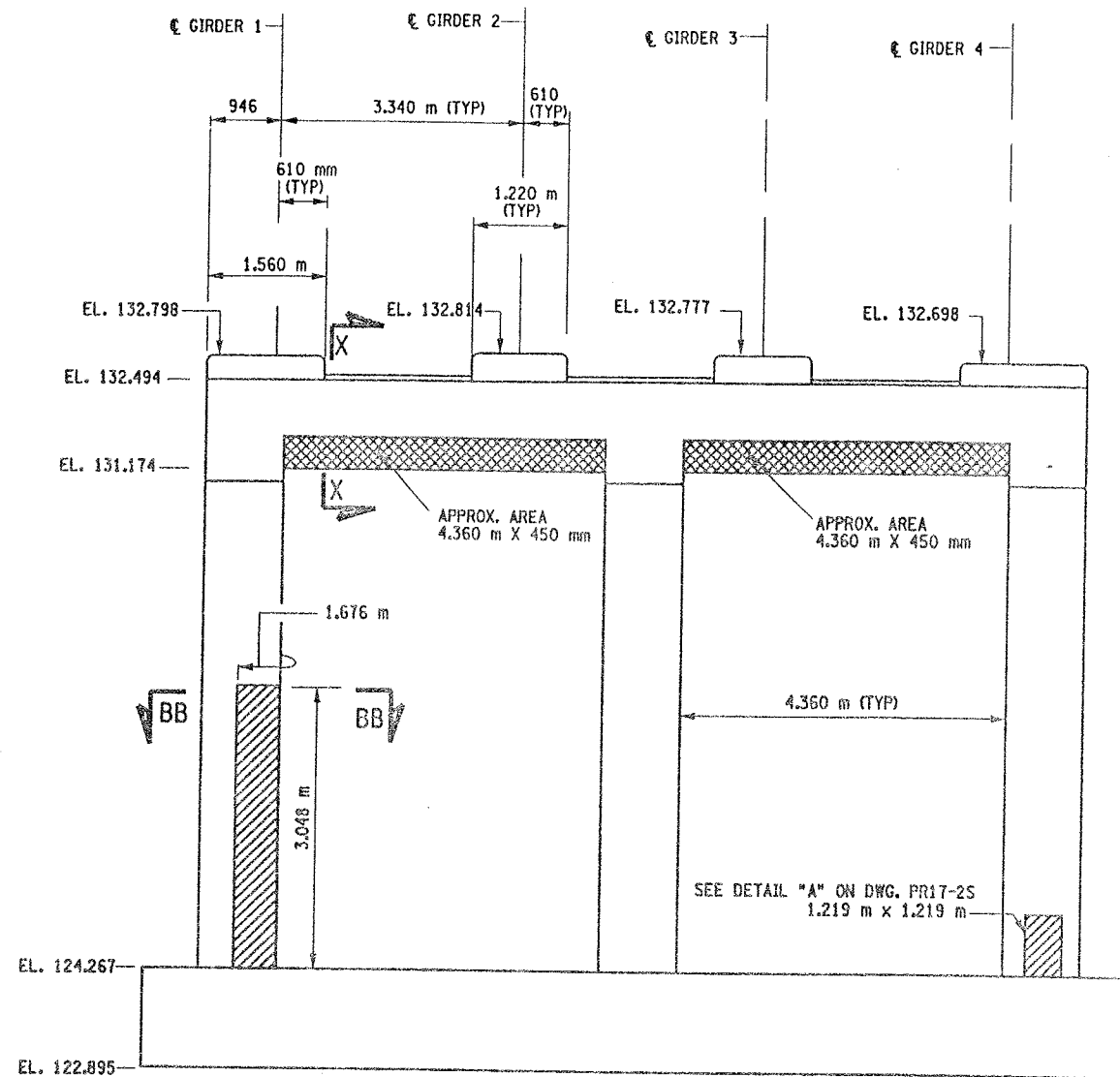


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
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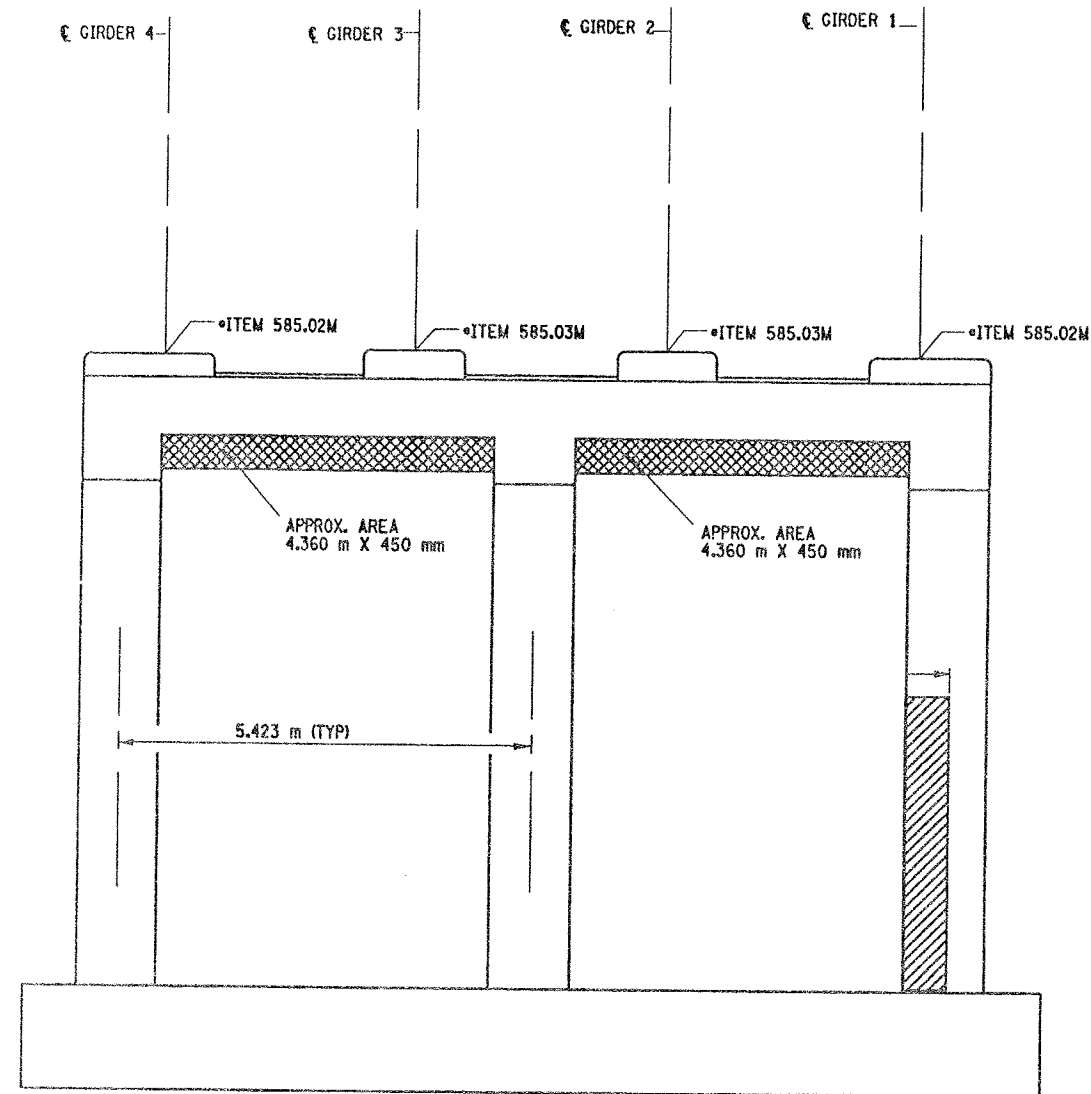
CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



PIER 9 - FRONT FACE (LOOKING NORTH)

BIN 1093572

SCALE: 1 TO 50



PIER 9 - BACK FACE (LOOKING SOUTH)

BIN 1093572

SCALE: 1 TO 50

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	324	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:



1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. SEE DWG. PR17- 12S FOR SECTION BB-BB.
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
10. FOR JACKING NOTES SEE DWG PR17-1S
11. SEE DWG. PR17-7N FOR SECTION X - X.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

-  ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
-  ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE ROUTE 481 NB  
OVER CSX RAILROAD YARD  
PIER 9

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P9A	3	10/02	PR17-9N



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DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	325	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093572		

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - FOR SECTION AA-AA SEE DWG. PR17-7N.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

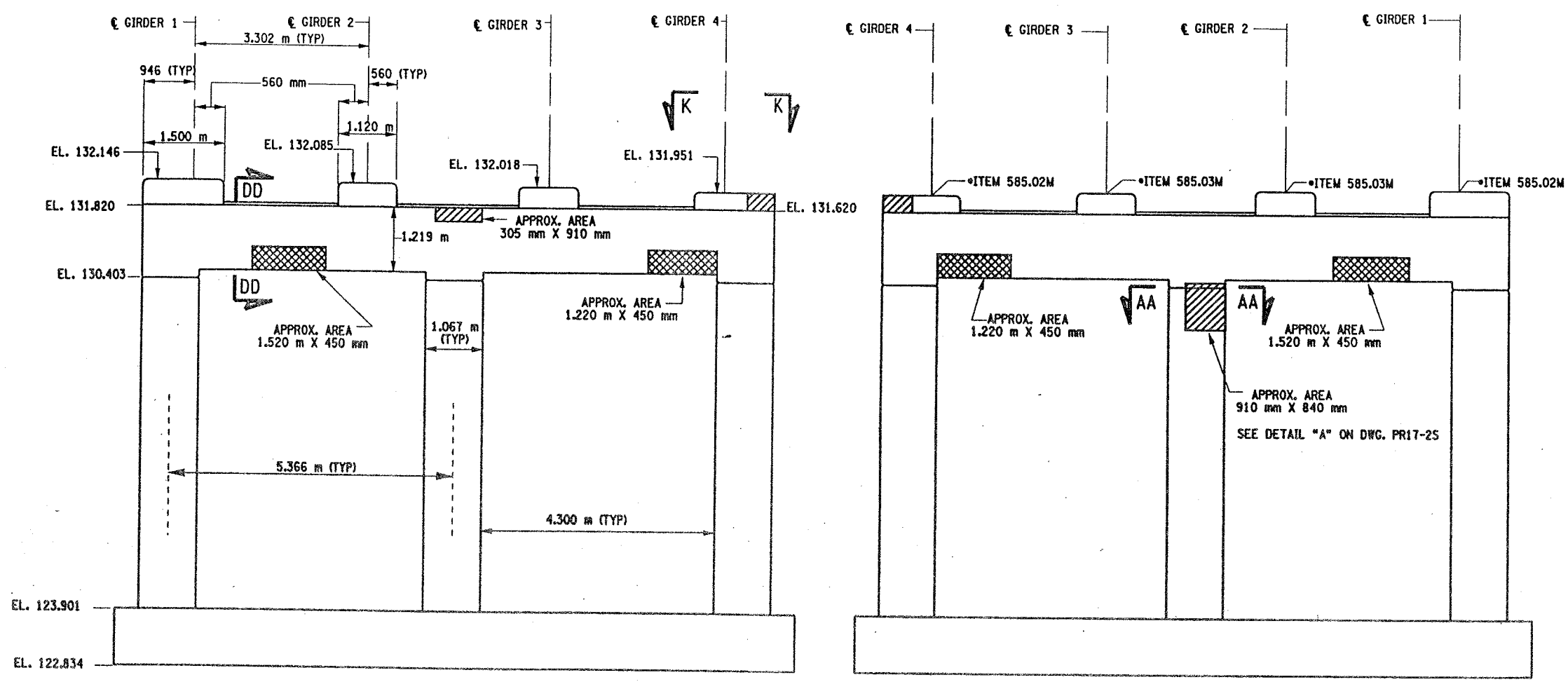
\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

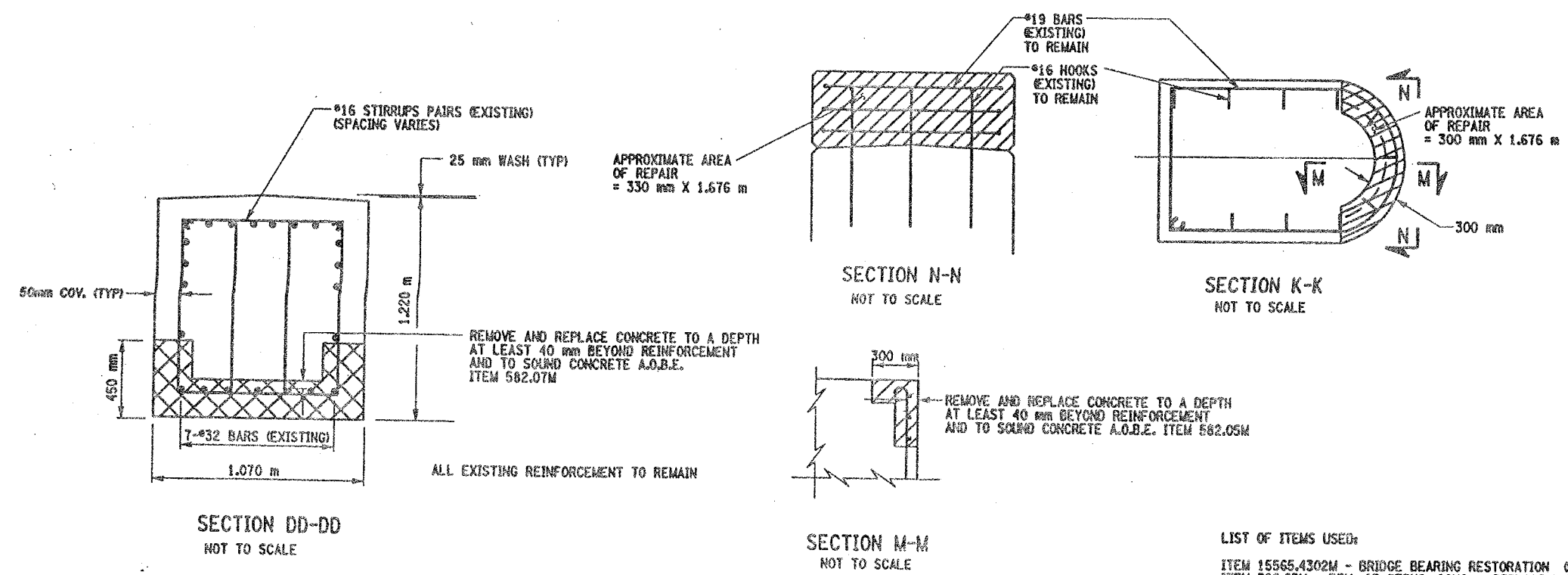
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 10			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P10	REGION 3	DATE 10/02	DRAWING NO. PR17-10N



PIER 10 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

PIER 10 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50

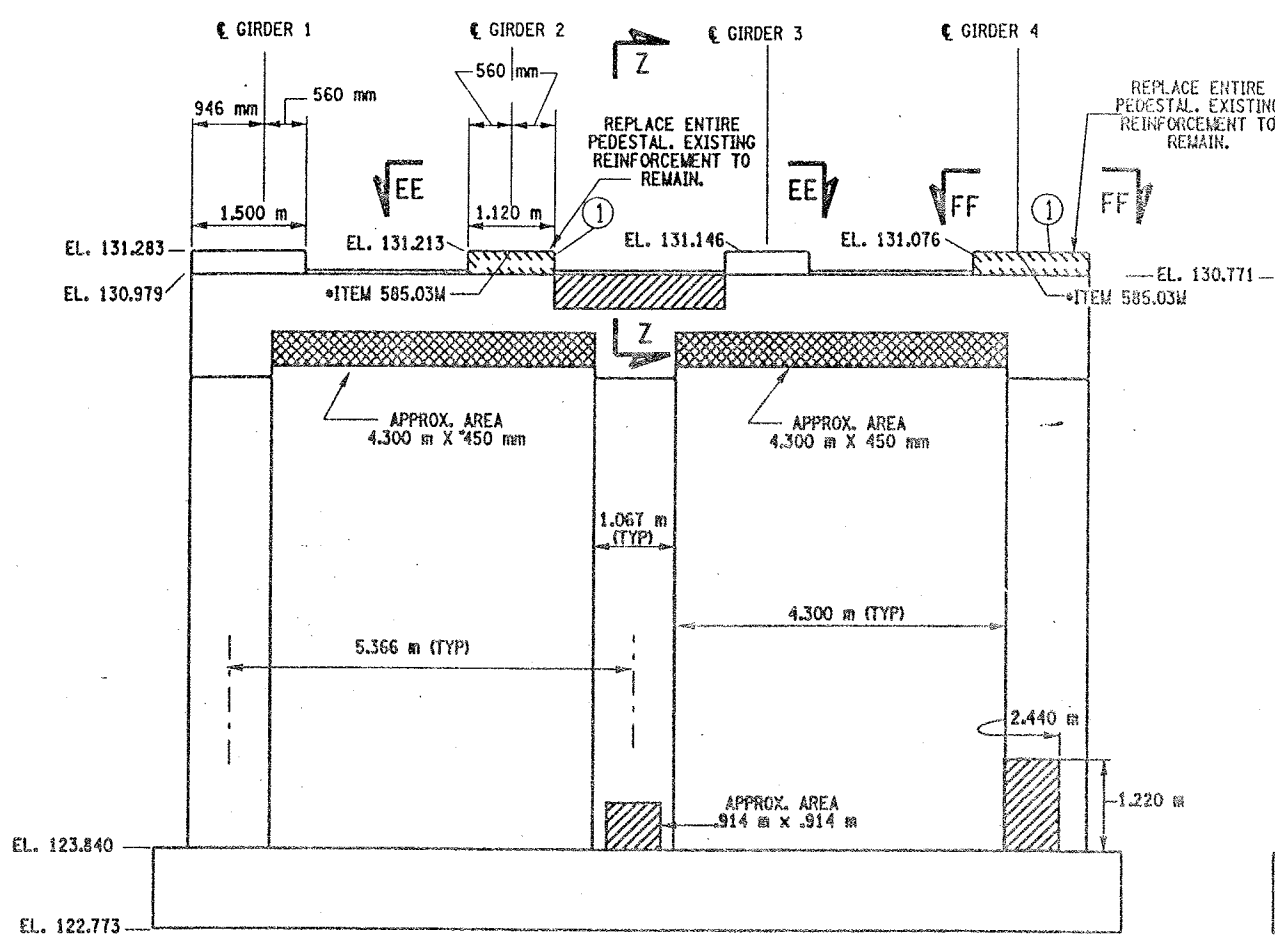


- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (CA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (CA)

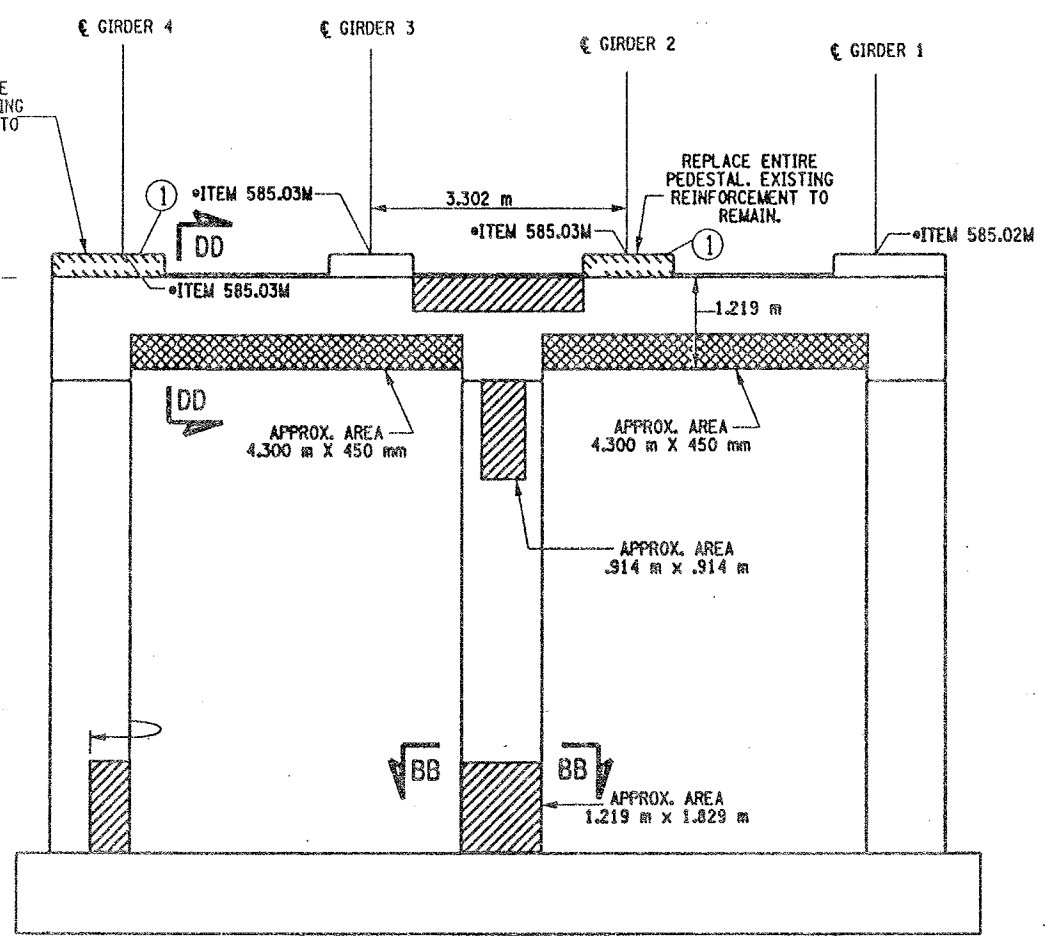


CHECKED BY  
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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	326	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

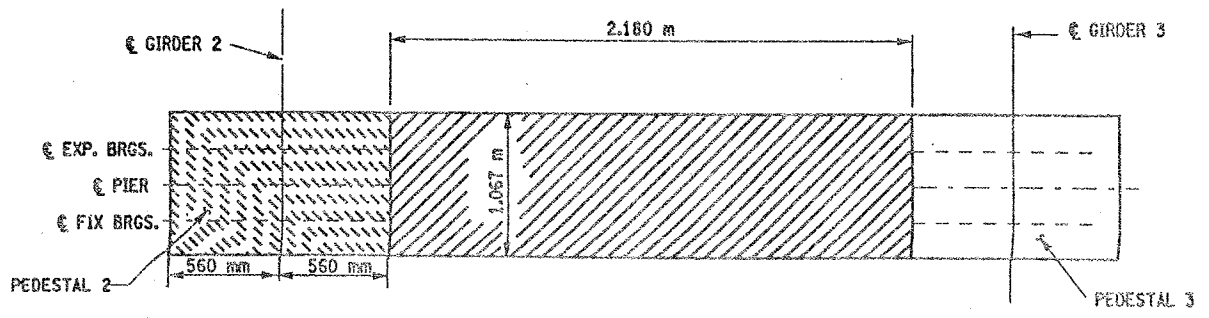


PIER 11 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

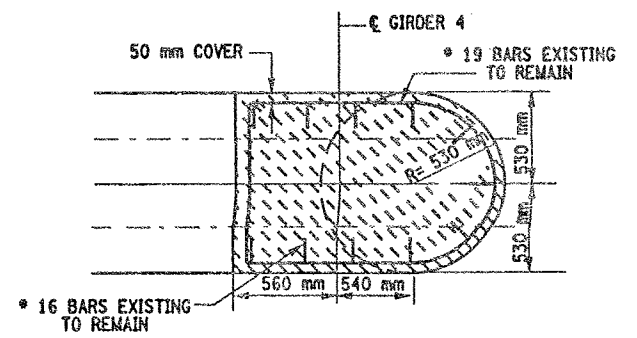


PIER 11- BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50

① INDICATES CONCRETE PLACEMENT NUMBER



SECTION EE-EE  
NOT TO SCALE



SECTION FF-FF  
NOT TO SCALE

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	0.80	555.0105M

LIST OF ITEMS USED

- ITEM 555.0105M - CONCRETE FOR STRUCTURES, CLASS A (CM)
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
- ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
- ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
- ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. SEE DWG. PR17-10N FOR SECTION DD-DD.
9. SEE DWG. PR17-12S FOR SECTION BB-BB.
10. SEE DWG. PR17-7N FOR SECTION Z-Z.
11. PEDESTALS 2 AND 4 SHALL BE REPLACED TO EXISTING DIMENSIONS, ITEM 555.0105 M
12. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
13. FOR JACKING NOTES SEE DWG. PR17-1S.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)
- ITEM 580.01 M - REMOVAL OF STRUCTURAL CONCRETE. (CM) AND ITEM 555.0105 M - CONCRETE FOR STRUCTURES CLASS A. (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

SIGNATURE		DATE	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 11			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P11	REGION 3	DATE 10/02	DRAWING NO. PR17-11N



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DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
		D259214	327	432
1	N.Y.			
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

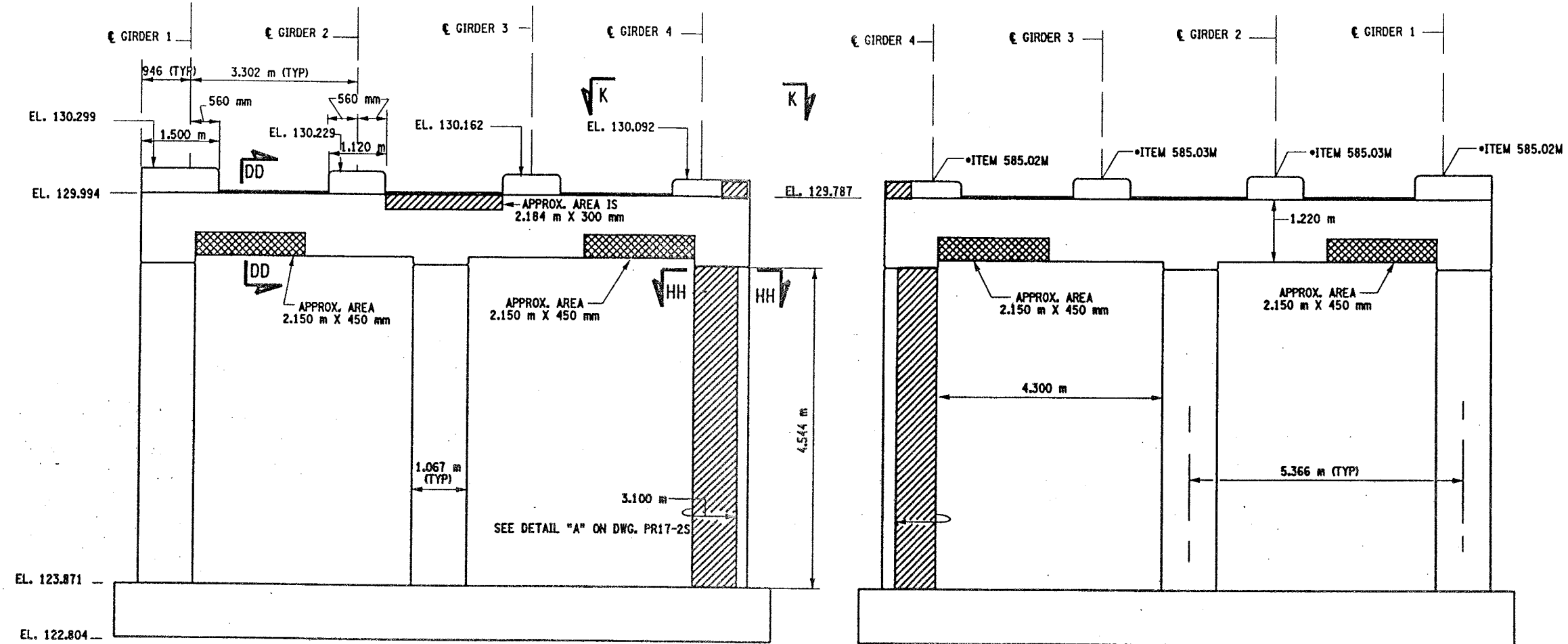
- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG PR17-10N FOR SECTION DO-DD.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED			
<u>AS BUILT REVISIONS</u>			
<u>SIGNATURE</u>		<u>DATE</u>	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 12			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P12	REGION 3	DATE 10/02	DRAWING NO. PR17-12N

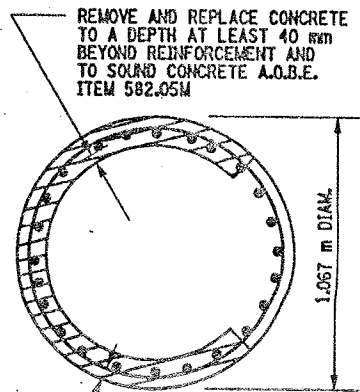


PIER 12 - FRONT FACE (LOOKING NORTH)

BIN 1093572  
SCALE: 1 TO 50

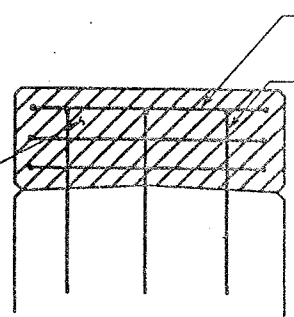
PIER 12 - BACK FACE (LOOKING SOUTH)

BIN 1093572  
SCALE: 1 TO 50

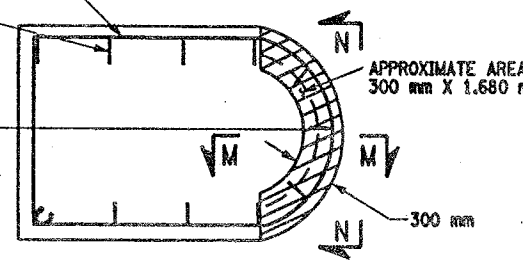


SECTION HH-HH

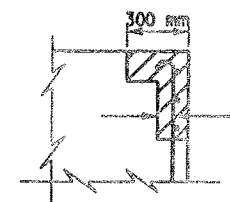
NOT TO SCALE



SECTION N-N  
NOT TO SCALE



SECTION K-K  
NOT TO SCALE



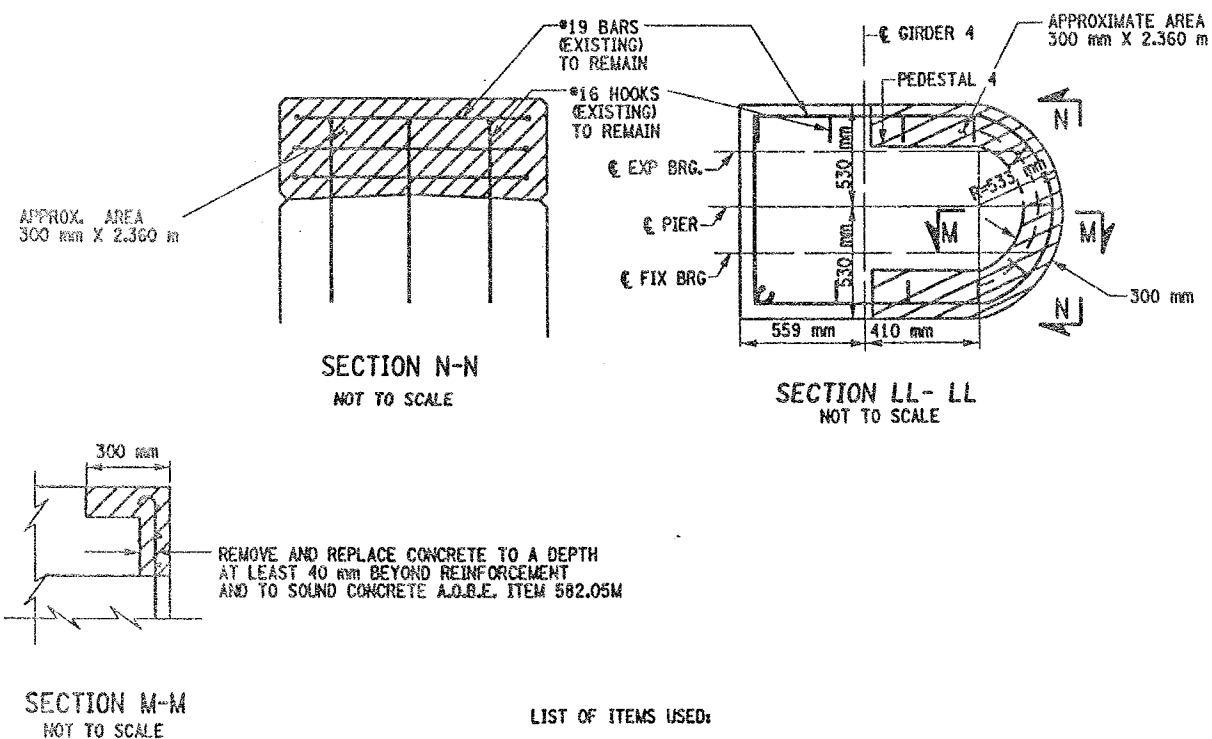
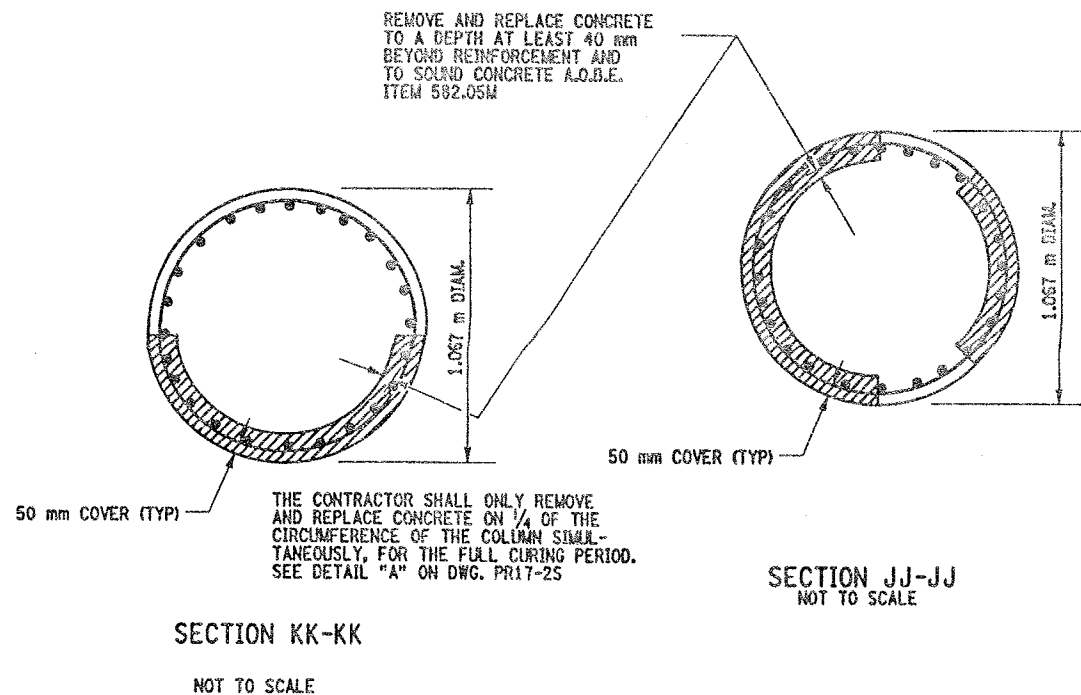
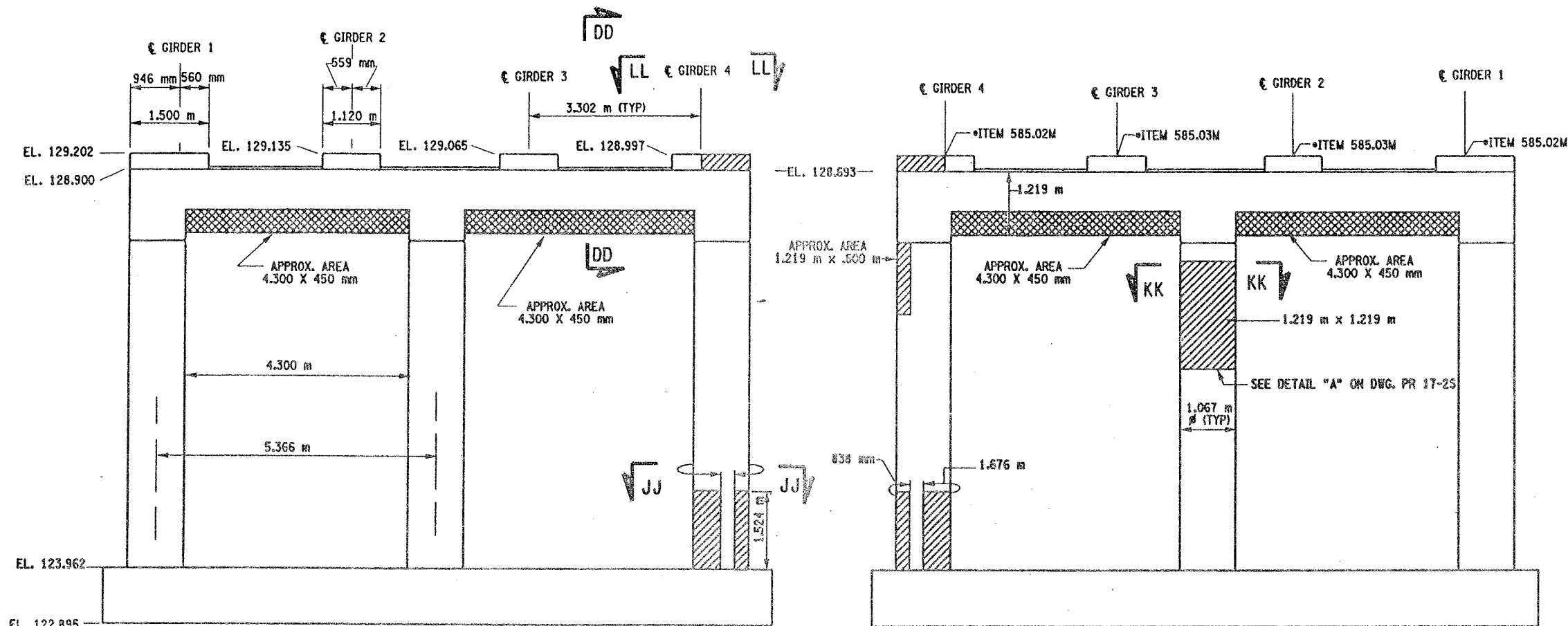
SECTION M-M

NOT TO SCALE

- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	328	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)

VARIOUS BRIDGES ON INTERSTATE 481

TOWNS OF DEWITT AND CICERO

ONONDAGA COUNTY

P.I.N. 305613

B.I.N. 1093572

NOTES:

- ALL REINFORCEMENT TO REMAIN.
- RESTORE TO ORIGINAL DIMENSIONS.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
- ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
- REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
- PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
- SEE DWG. PR 17-10N FOR SECTION DD-DD.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
- FOR JACKING NOTES SEE DWG PR17-15.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481 NB  
OVER  
CSX RAILROAD YARD  
PIER 13

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME  
305613AE.P13

REGION  
3

DATE  
10/02

DRAWING NO.  
PR17-13N



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	329	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093572

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-10N FOR SECTION DD-DD.
  - SEE DWG. PR17-7N FOR SECTION AA-AA.
  - SEE DWG. PR17-13N FOR SECTION KK-KK.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

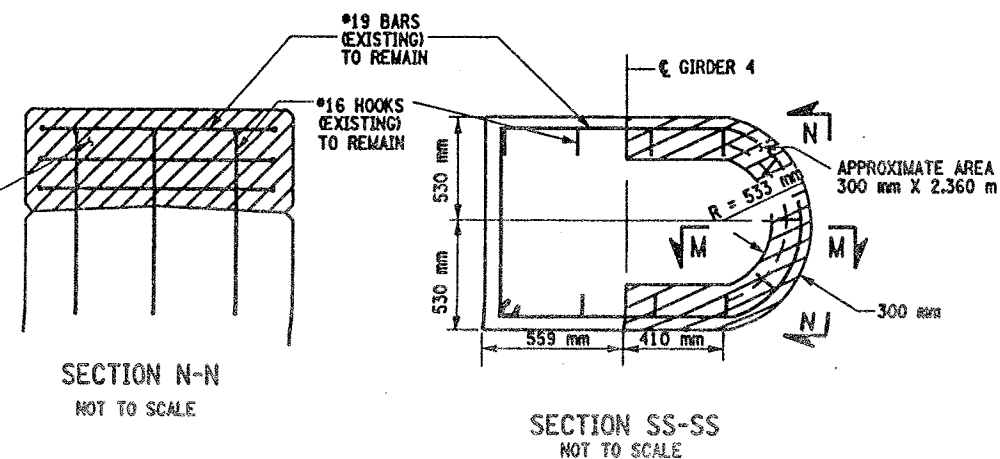
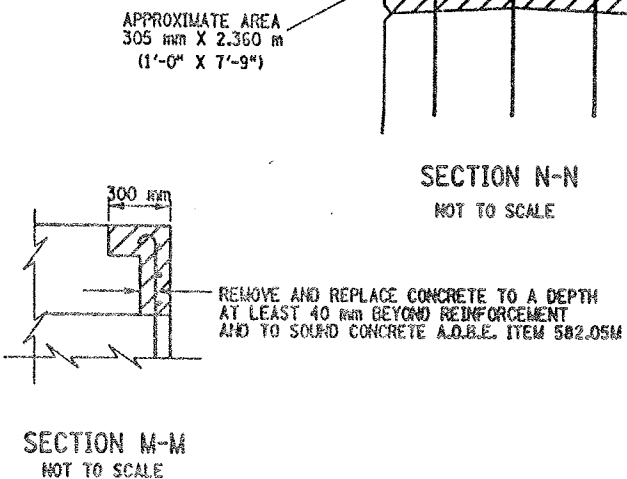
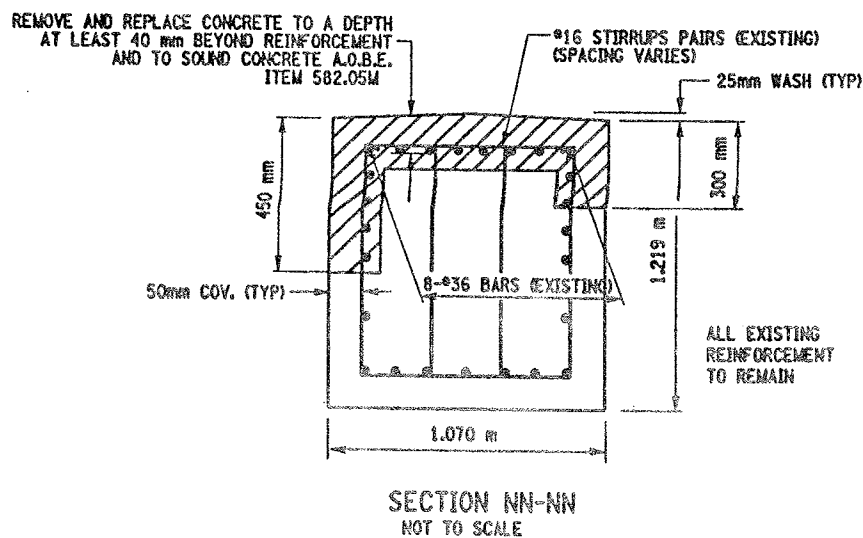
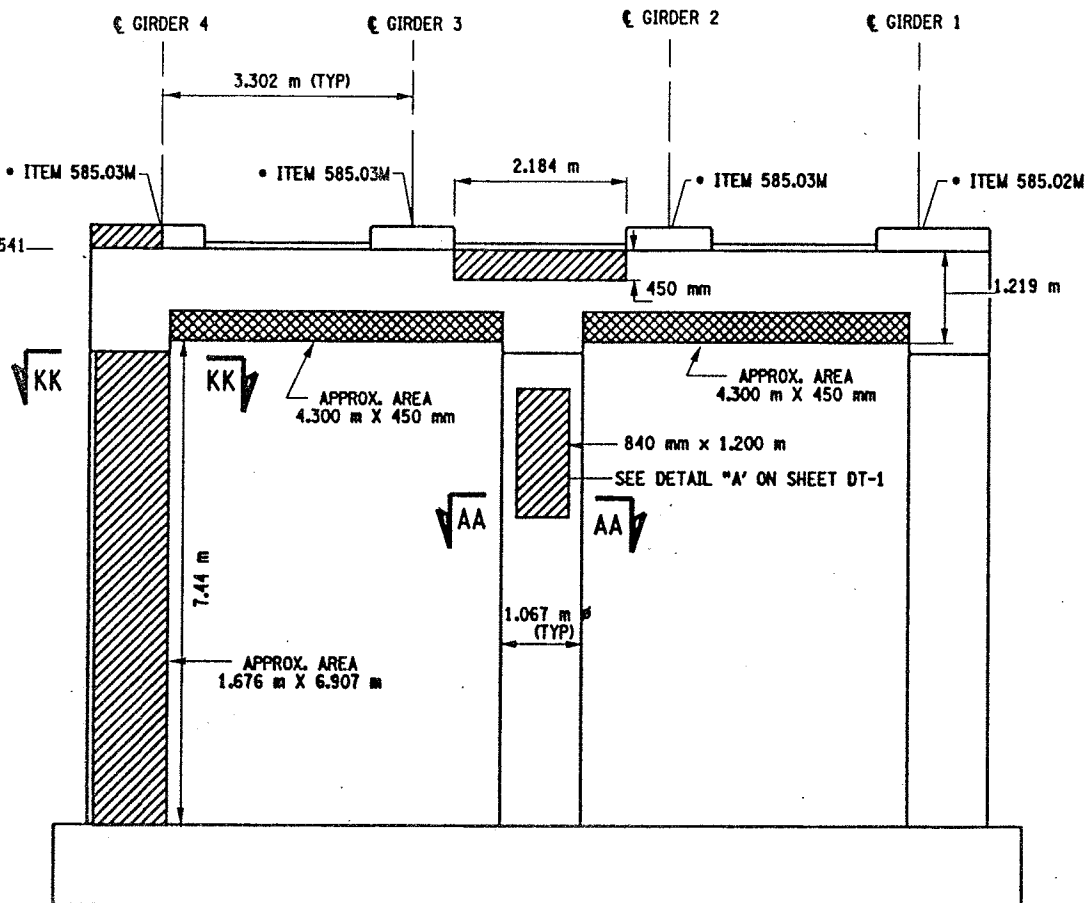
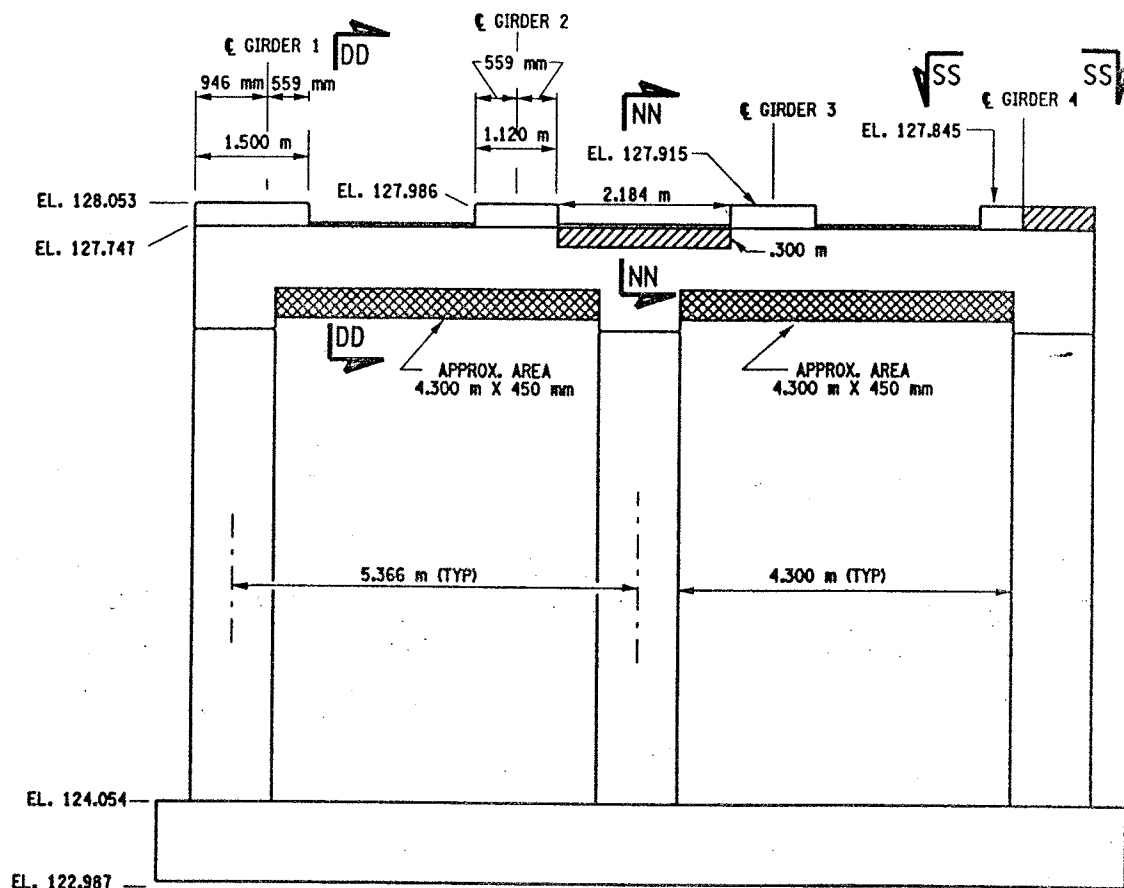
LEGEND:

ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)

ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

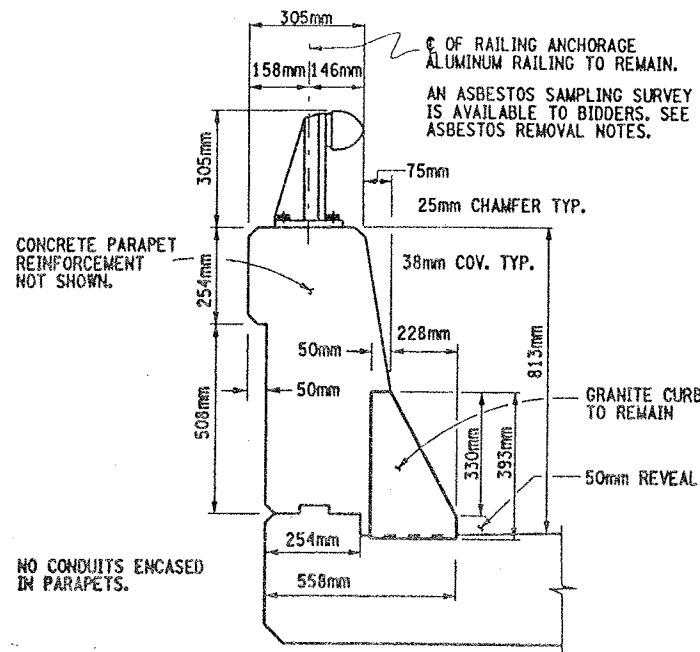
SIGNATURE	DATE		
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 14			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P14	REGION 3	DATE 10/02	DRAWING NO. PR17-14N



- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

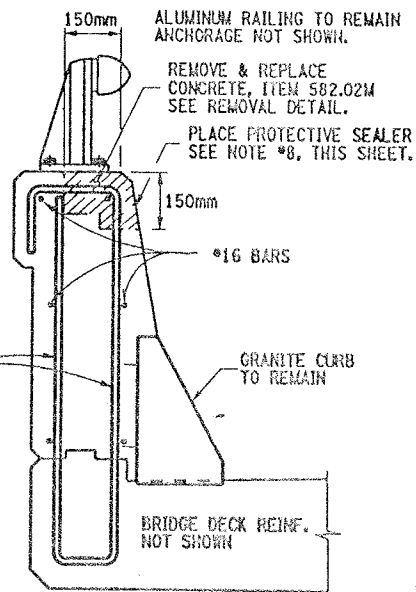


CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



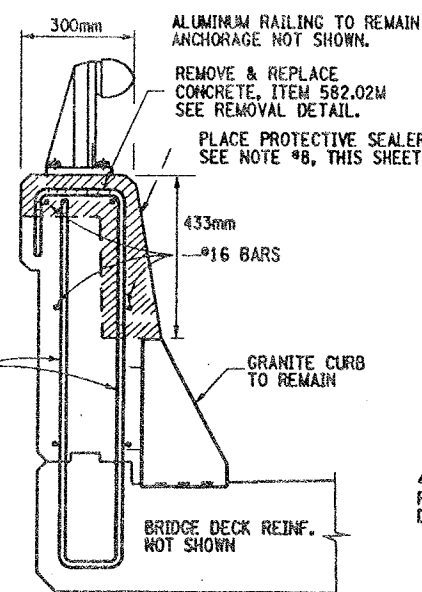
TYPICAL SECTION THRU SUPERSTRUCTURE  
PARAPET CONCRETE DETAILS

NOT TO SCALE



I REPAIR DETAILS  
150mmX150mm TOP

NOT TO SCALE



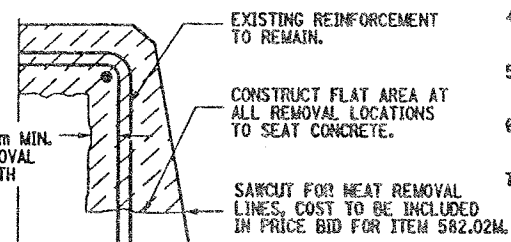
II REPAIR DETAILS  
FULL TOP & FRONT FACE

NOT TO SCALE

CONCRETE REMOVAL NOTES:

REMOVE ALL DETERIORATED CONCRETE TO SOUND CONCRETE AND AT LEAST 40mm BEYOND ENCOUNTERED REINFORCEMENT BARS, ABOVE. PAYMENT TO BE PAID UNDER ITEM 582.05M.

CONCRETE REMOVAL, SAWCUT 6mm DEPTH MINIMUM TO PRODUCE NEAT REMOVAL LINES, ALL COSTS SHALL BE INCLUDED IN PRICE BID FOR ITEM 582.05M.



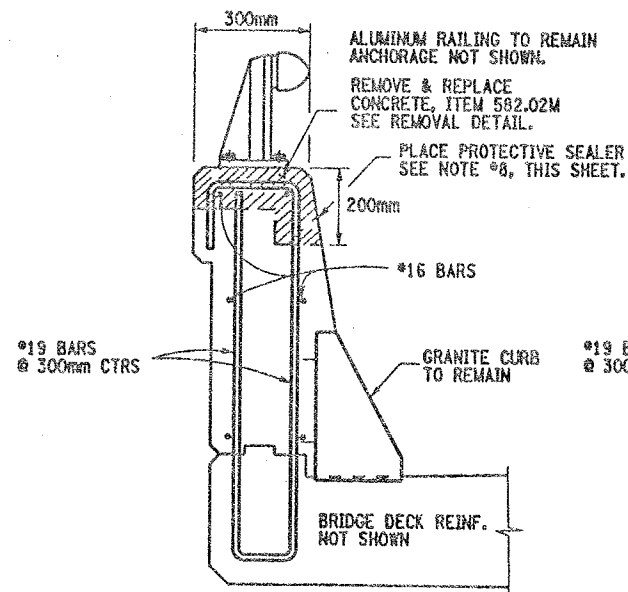
TYPICAL REMOVAL DETAIL

NOT TO SCALE

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	330	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

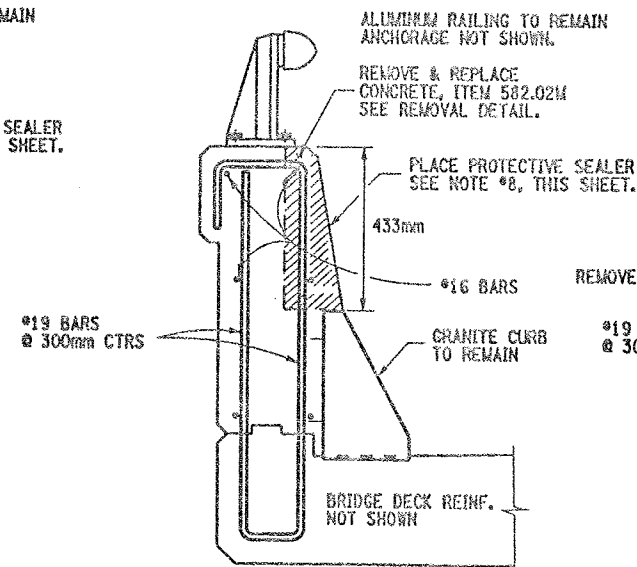
CONCRETE PARAPET REPAIR NOTES:

1. ALUMINUM RAILING TO REMAIN, ANCHORAGE NOT SHOWN.
2. EXISTING PARAPET REINFORCEMENT TO REMAIN.
3. GRANITE CURB TO REMAIN, ANCHOR BARS NOT SHOWN.
4. REMOVAL OF CONCRETE TO LIMITS SHOWN, ABOVE. SEE TYPICAL REMOVAL DETAIL, THIS SHEET.
5. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
6. CONTRACTOR SHALL RESTORE CONCRETE PARAPET TO ORIGINAL DIMENSIONS.
7. IT IS DESIRABLE TO RETAIN ALL EXISTING GRANITE CURB, BUT AT SOME LOCATIONS ADJACENT TO THE JOINT BLOCK-OUTS IT MAY BE NECESSARY TO REPLACE OR REPAIR THE SECTION OF CURB, TO THE SATISFACTION OF THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR ITEM 582.05M.
8. AFTER PARAPET REPAIRS ARE COMPLETED AND SUFFICIENT CURE TIME AS DECIDED BY ENGINEER, APPLY A COATING TYPE PROTECTIVE SEALERS WHICH MEETS MATERIAL SPECIFICATION 717-04. THIS PROTECTIVE SEALER SHALL BE APPLIED TO THE FRONT FACE AND TOP OF ALL PARAPETS (REPAIRED AREAS & ORIGINAL AREAS) TO ENSURE A UNIFORMED APPEARANCE. COST OF THIS SEALER TO BE INCLUDED IN PRICE BID FOR ITEM 18559.1696 M.



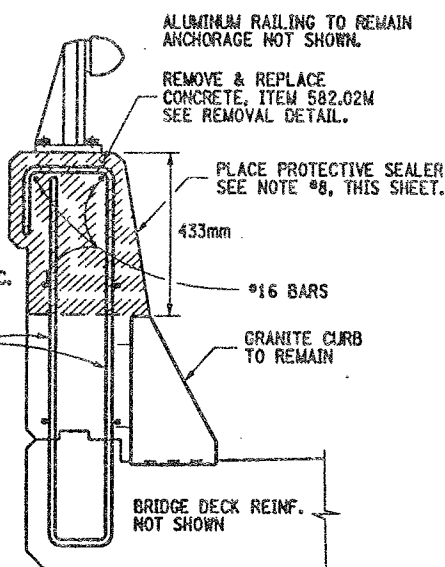
III REPAIR DETAILS  
FULL TOP & 200mm FACE

NOT TO SCALE



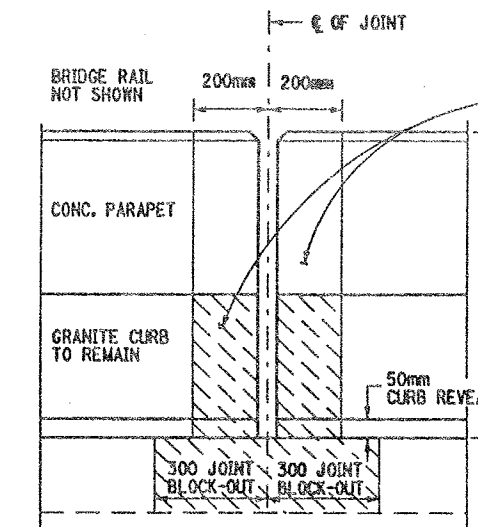
IV REPAIR DETAILS  
FRONT FACE

NOT TO SCALE



V REPAIR DETAILS  
FULL SECTION

NOT TO SCALE



FRONT FACE PARAPET CONCRETE DETAIL  
SHOWS TYPICAL CONC. REMOVAL AT JOINT

NOT TO SCALE

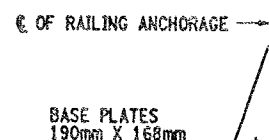
ASBESTOS MATERIAL REMOVAL NOTES:

THE REMOVAL OF ALL ASBESTOS CONTAINING CAULK (ITEM 210.5433M) SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY PARAPET REPAIR WORK.

THIS REMOVAL OF THE ASBESTOS CAULK SHALL BE PERFORMED AT EACH BRIDGE RAIL BASE PLATE ON BOTH N.B. & S.B. BRIDGES. REMOVE ASBESTOS CAULKING AT ALL RAIL BASE PLATES BOTH BRIDGES.

AFTER COMPLETION OF THE PARAPET REPAIRS INSTALL A CAULKING COMPOUND AROUND THE BASE PLATES OF THE RAILING WHICH MEETS MATERIAL SPEC. 705-06 AND IS ACCEPTABLE TO THE ENGINEER. PAID UNDER ITEM 210.5433M.

REFER TO ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 FOR RAIL LAY-OUT DETAILS.



TYPICAL BRIDGE RAIL DETAIL

NOT TO SCALE

REMOVE EXISTING GRAY ASBESTOS CAULKING COMPOUND AT THE ALUMINUM RAILING BASE PLATES. IT IS ASSUMED THAT THE CAULK COMPOUND IS SURROUNDING (PERIMETER) THE RAILING BASE PLATES. THIS PERIMETER REMOVAL OPERATION SHALL BE PERFORMED AT EACH RAILING BASE PLATE ON BOTH STRUCTURES.

HOWEVER, SOME CAULK MATERIAL MAY BE FOUND UNDER THE RAILING BASE PLATES. THIS CAULKING COMPOUND UNDER THE BASE PLATES SHALL BE REMOVED ONLY AT LOCATIONS WHERE THE PARAPET CONCRETE REPAIRS WILL DISTURB THE MATERIAL (ENCOUNTERED).

ALL COSTS TO BE PAID UNDER ITEM 210.5433M. SEE ASBESTOS MATERIAL REMOVAL NOTES, THIS SHEET.

ITEMS USED:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE, REPLACE WITH CLASS "A" CONCRETE (CM)
- ITEM 210.5433M - REMOVAL & DISPOSAL OF ASBESTOS CONTAINING CAULK (BY 12) (S)
- ITEM 18559.1696M - PROTECTIVE SEALING OF STRUCTURAL CONCRETE (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 OVER CSX RR YARD

PARAPET REPAIR DETAILS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	PW17-1



CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

PARAPET REPAIR TABLE (ITEM 582.05M)			
BIN 1093571			
STATION TO STATION	RIGHT SIDE (EAST)	LEFT SIDE (WEST)	REMARKS
SPAN 1 6+626.288 TO 6+627.588	1.300m		① REPAIR PROCEDURE
6+653.795 TO 6+654.495	.700m		② REPLACE FULL SECTION
6+653.595 TO 6+654.495		.900m	② REPLACE FULL SECTION
SPAN 2 6+654.895 TO 6+655.505	.600m		② REPLACE FULL SECTION
6+654.895 TO 6+655.505		.600m	② REPLACE FULL SECTION
6+654.895 TO 6+664.895	10.000m		① REPAIR PROCEDURE
6+669.995 TO 6+673.695	3.700m		① REPAIR PROCEDURE
SPAN 3 6+731.266 TO 6+735.466	4.200m		① REPAIR PROCEDURE
6+753.266 TO 6+754.266	1.000m		② REPLACE FULL SECTION
6+753.266 TO 6+754.266		1.000m	② REPLACE FULL SECTION
SPAN 4 6+754.666 TO 6+755.666	1.000m		② REPLACE FULL SECTION
6+760.466 TO 6+769.866		9.400m	① REPAIR PROCEDURE
6+760.666 TO 6+778.966	18.300m		① REPAIR PROCEDURE
6+790.116 TO 6+791.616		1.500m	① REPAIR PROCEDURE
6+789.316 TO 6+801.316	12.000m		① REPAIR PROCEDURE
6+794.116 TO 6+803.616		9.500m	② REPAIR PROCEDURE
6+813.616 TO 6+814.616	1.000m		② REPLACE FULL SECTION
6+813.616 TO 6+814.616		1.000m	② REPLACE FULL SECTION
SPAN 5 6+815.016 TO 6+816.016	1.000m		② REPLACE FULL SECTION
6+823.166 TO 6+871.166	48.000m		① REPAIR PROCEDURE
6+870.566 TO 6+874.966	4.000m		② REPLACE FULL SECTION
SPAN 6 6+875.366 TO 6+876.366	1.000m		② REPLACE FULL SECTION
6+875.366 TO 6+895.366		20.000m	② REPLACE FULL SECTION
6+875.317 TO 6+935.317	60.000m		② REPAIR PROCEDURE
6+908.317 TO 6+914.317		6.000m	② REPAIR PROCEDURE
6+920.517 TO 6+928.517		8.000m	② REPAIR PROCEDURE
6+923.317 TO 6+935.317		12.000m	② REPAIR PROCEDURE
SPAN 7 6+935.717 TO 6+947.217	11.500m		② REPAIR PROCEDURE
6+949.917 TO 6+951.417	1.500m		① REPAIR PROCEDURE
6+952.112 TO 6+967.112		15.000m	② REPAIR PROCEDURE
6+967.012 TO 6+969.612	2.600m		② REPAIR PROCEDURE
SPAN 8 6+973.512 TO 7+010.907	37.400m		① REPAIR PROCEDURE
6+981.907 TO 6+990.407		8.500m	② REPAIR PROCEDURE
6+996.907 TO 7+010.907		14.000m	② REPAIR PROCEDURE
SPAN 9 7+011.307 TO 7+048.702		37.400m	② REPAIR PROCEDURE
SPAN 10 7+070.325 TO 7+074.325		4.000m	② REPAIR PROCEDURE
SPAN 11 7+091.825 TO 7+098.825	7.000m		① REPAIR PROCEDURE
7+102.525 TO 7+106.025	3.500m		① REPAIR PROCEDURE
7+100.325 TO 7+108.325		8.000m	① REPAIR PROCEDURE
7+109.325 TO 7+110.825	1.500m		① REPAIR PROCEDURE
7+112.725 TO 7+128.725		16.000m	① REPAIR PROCEDURE
7+114.825 TO 7+117.825	3.000m		① REPAIR PROCEDURE
SPAN 12 7+129.125 TO 7+166.825		37.700m	② REPAIR PROCEDURE
7+131.925 TO 7+137.925	6.000m		② REPAIR PROCEDURE
7+158.025 TO 7+159.525	1.500m		② REPAIR PROCEDURE
SPAN 13 7+167.225 TO 7+204.925	37.700m		① REPAIR PROCEDURE
7+172.225 TO 7+184.225		12.000m	① REPAIR PROCEDURE
7+189.925 TO 7+204.925		15.000m	① REPAIR PROCEDURE
SPAN 14 7+205.325 TO 7+243.025	37.700m		① REPAIR PROCEDURE
7+205.325 TO 7+243.025		37.700m	② REPAIR PROCEDURE
SPAN 15 7+243.425 TO 7+281.530		38.100m	② REPAIR PROCEDURE
7+248.530 TO 7+254.330	5.800m		② REPAIR PROCEDURE
7+257.430 TO 7+262.030	4.600m		① REPAIR PROCEDURE
7+265.030 TO 7+266.530	1.500m		① REPAIR PROCEDURE
7+268.230 TO 7+271.730	3.500m		① REPAIR PROCEDURE

\* FULL SECTION REPLACEMENT AS DIRECTED BY ENGINEER TO INCLUDE IF NECESSITY, REPLACEMENT OR REPAIR OF THE GRANITE CURB. ALL COST TO BE INCLUDED IN BID PRICE FOR ITEM 582.05M.

(BACKFACE) INDICATES REPAIR AREA IS ON THE OUTSIDE OR BACKFACE OF PARAPET. CAUTION MUST BE TAKEN WHEN WORKING OVER R.R. TRACKS.

PARAPET REPAIR TABLE (ITEM 582.05M)			
BIN 1093572			
STATION TO STATION	RIGHT SIDE (EAST)	LEFT SIDE (WEST)	REMARKS
SPAN 1 6+578.084 TO 6+582.084	4.000m		① REPAIR PROCEDURE
6+592.589 TO 6+594.789	2.200m		① REPAIR PROCEDURE
6+593.884 TO 6+600.884		7.000m	① REPAIR PROCEDURE (BACKFACE)
6+597.489 TO 6+599.489	2.000m		① REPAIR PROCEDURE
6+600.581 TO 6+608.297	7.700m		① REPAIR PROCEDURE
6+602.697 TO 6+608.297		5.600m	① REPAIR PROCEDURE (BACKFACE)
SPAN 2 6+608.697 TO 6+620.197		11.500m	① REPAIR PROCEDURE (BACKFACE)
6+639.497 TO 6+641.497		2.000m	① REPAIR PROCEDURE (BACKFACE)
6+646.997 TO 6+653.497		6.500m	① REPAIR PROCEDURE (BACKFACE)
SPAN 3 6+662.597 TO 6+664.597		2.000m	② REPAIR PROCEDURE
6+676.097 TO 6+684.097	8.000m		① REPAIR PROCEDURE
6+697.097 TO 6+698.097	1.000m		① REPAIR PROCEDURE
6+707.070 TO 6+708.070	1.000m		② REPLACE FULL SECTION *
6+707.070 TO 6+708.070		1.000m	② REPLACE FULL SECTION *
SPAN 4 6+708.470 TO 6+709.470	1.000m		② REPLACE FULL SECTION
6+715.570 TO 6+757.070	41.500m		① REPAIR PROCEDURE
6+719.070 TO 6+728.070		9.000m	① REPAIR PROCEDURE
6+750.420 TO 6+768.420		18.000m	② REPAIR PROCEDURE
6+767.420 TO 6+768.420	1.000m		② REPLACE FULL SECTION
SPAN 5 6+768.820 TO 6+770.320	1.500m		② REPLACE FULL SECTION
6+773.120 TO 6+786.120	13.000m		① REPAIR PROCEDURE
6+778.920 TO 6+783.220		4.300m	① REPAIR PROCEDURE
6+799.620 TO 6+802.120		2.500m	① REPAIR PROCEDURE
6+804.620 TO 6+815.620	11.000m		① REPAIR PROCEDURE
6+826.771 TO 6+828.771		2.000m	② REPLACE FULL SECTION
SPAN 6 6+829.171 TO 6+830.171	1.000m		② REPLACE FULL SECTION
6+829.171 TO 6+830.171		1.000m	② REPLACE FULL SECTION
6+830.171 TO 6+888.771		58.600m	② REPAIR PROCEDURE
6+846.971 TO 6+849.971	3.000m		① REPAIR PROCEDURE
6+855.621 TO 6+889.121	33.500m		① REPAIR PROCEDURE
SPAN 7 6+889.126 TO 6+926.916	37.400m		① REPAIR PROCEDURE
6+892.221 TO 6+897.521		5.300m	① REPAIR PROCEDURE
6+903.321 TO 6+907.621		4.300m	① REPAIR PROCEDURE
6+909.721 TO 6+911.721		2.000m	① REPAIR PROCEDURE
6+916.916 TO 6+926.916		10.000m	② REPAIR PROCEDURE
SPAN 8 6+927.316 TO 6+964.712	37.400m		② REPAIR PROCEDURE
SPAN 9 6+965.112 TO 6+996.112	31.000m		① REPAIR PROCEDURE
SPAN 10 7+014.602 TO 7+023.602		9.000m	② REPAIR PROCEDURE
7+020.302 TO 7+040.302	20.000m		② REPAIR PROCEDURE
SPAN 11 7+044.302 TO 7+046.302		2.000m	① REPAIR PROCEDURE
7+060.397 TO 7+067.697	7.300m		① REPAIR PROCEDURE
SPAN 12 7+099.892 TO 7+101.892	2.000m		① REPAIR PROCEDURE
SPAN 13 7+119.492 TO 7+125.492		6.000m	① REPAIR PROCEDURE
7+168.283 TO 7+186.283		18.000m	① REPAIR PROCEDURE
7+168.983 TO 7+191.483	22.500m		① REPAIR PROCEDURE
SPAN 14 7+171.093 TO 7+191.483	20.400m		① REPAIR PROCEDURE
7+165.783 TO 7+179.283		13.500m	① REPAIR PROCEDURE
SPAN 15 7+197.883 TO 7+199.883		2.000m	① REPAIR PROCEDURE
7+198.283 TO 7+229.683	31.400m		① REPAIR PROCEDURE

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	331	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

# GENERAL NOTES:

WORK ADJACENT TO JOINT BLOCK-OUT (200mm) SHALL BE INCLUDED IN THE BRIDGE JOINT REPLACEMENT ITEMS. SEE DRAWING NO. JD-53 FOR JOINT BLOCK-OUT REMOVAL DETAILS.

SOME REPAIRS ARE ON THE BACK FACE OF THE PARAPETS. SOME OF THIS WORK MAY BE OVER THE RAIL ROAD TRACKS.

REFER TO DRAWING NO. PW17-1 FOR CONCRETE REMOVAL DETAILS AND NOTES.

STATIONING AND DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR AND ENGINEER.

REFER TO RECONSTRUCTION NOTES ON DRAWING NO. GN-1.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
TABLE OF PARAPET REPAIRS

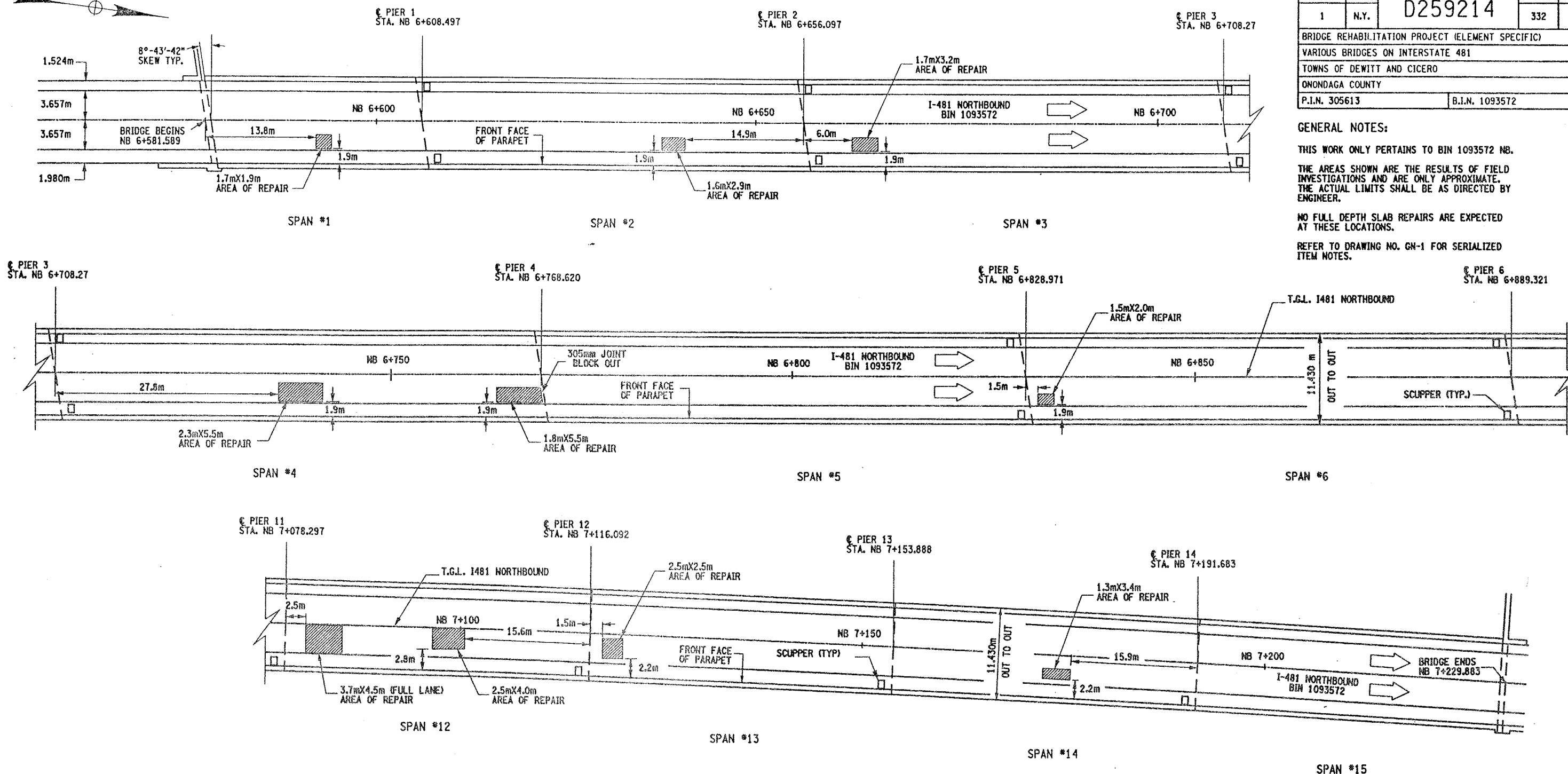


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	PW17-2



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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



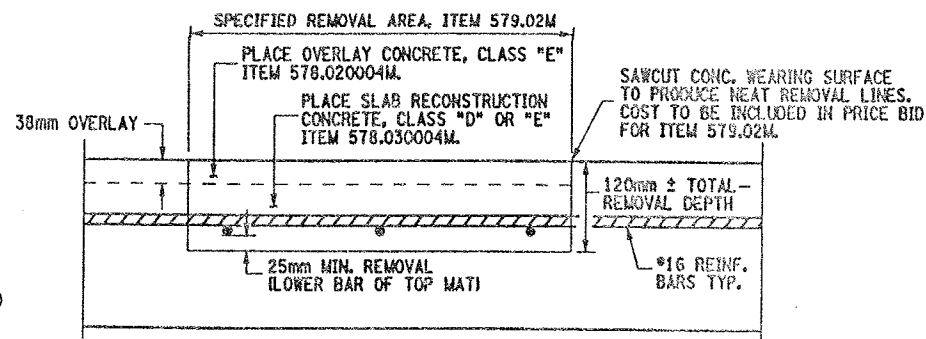
#### REMOVAL NOTES:

ORIGINAL BRIDGE DECK 203mm MONOLITHIC SLAB.  
A 38mm CONC. OVERLAY HAS BEEN ADDED.

THESE LOCATIONS ARE CURRENTLY FILLED WITH  
ASPHALT (BLACKTOP). DEPTH OF ASPHALT IS  
UNKNOWN, ESTIMATED AT 38mm. THE REMOVAL  
OF THE ASPHALT AND CONCRETE TO LIMITS SHOWN  
TO BE PAID UNDER ITEM 579.02M.

REMOVE CONCRETE TO LIMITS SHOWN AND TO SOUND  
CONCRETE, AS ORDER BY ENGINEER.

ALL AREAS THAT ARE REPAIRED SHALL ALSO RECEIVE  
ITEM 558.01 - TRANSVERSE SAWCUT GROOVING AND  
ITEM 18559.1896M - PROTECTIVE SEALING.



CROSS SECTION VIEW THROUGH REPAIR LOCATION

NOT TO SCALE

#### PLAN VIEW OF SPOT DECK REPAIRS

NOT TO SCALE

#### ITEMS USED:

- ITEM 558.01M - TRANSVERSE SAWCUT GROOVING (SM)
- ITEM 18559.1896M - PROTECTIVE SEALING FOR STRUCT. CONC. (SM)
- ITEM 578.020004M - OVERLAY CONCRETE, CLASS "E" (SM)
- ITEM 578.030004M - SLAB RECONSTRUCTION CONCRETE, CLASS "D" OR "E" (SM)
- ITEM 579.02M - REINFORCING BAR EXPOSURE (SM)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	332	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093572

#### GENERAL NOTES:

THIS WORK ONLY PERTAINS TO BIN 1093572 NB.

THE AREAS SHOWN ARE THE RESULTS OF FIELD  
INVESTIGATIONS AND ARE ONLY APPROXIMATE.  
THE ACTUAL LIMITS SHALL BE AS DIRECTED BY  
ENGINEER.

NO FULL DEPTH SLAB REPAIRS ARE EXPECTED  
AT THESE LOCATIONS.

REFER TO DRAWING NO. GN-1 FOR SERIALIZED  
ITEM NOTES.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
BRIDGE DECK REPAIRS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	DR17-1



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JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	325	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - FOR SECTION AA-AA SEE DWG. PR17-7N.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

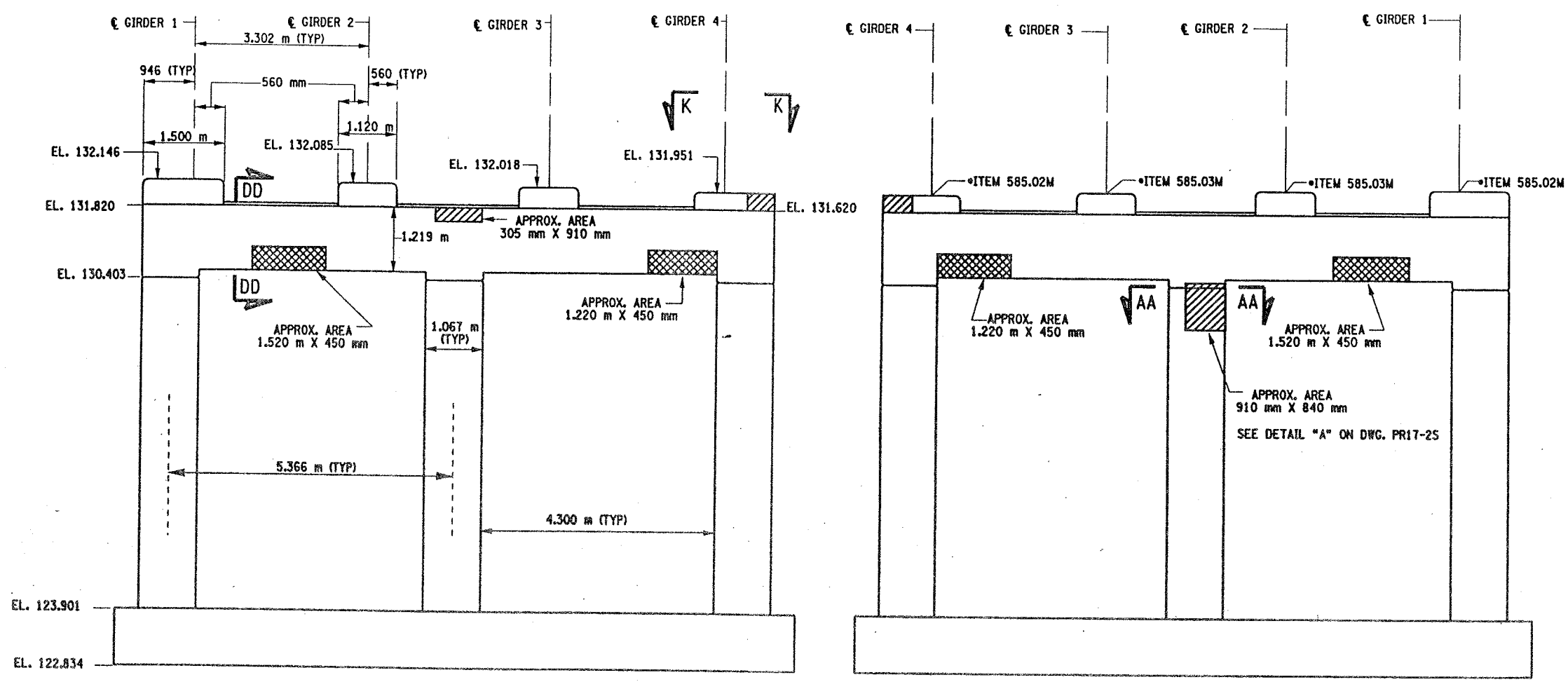
\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

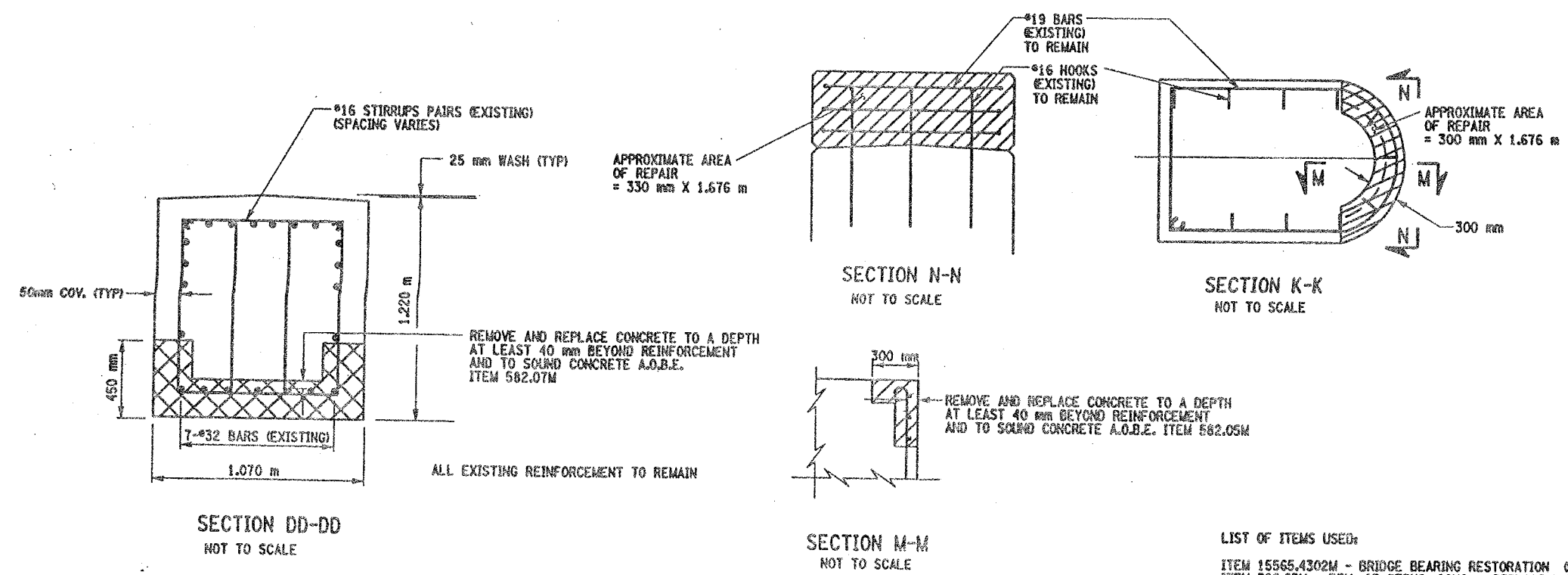
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 10			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P10	REGION 3	DATE 10/02	DRAWING NO. PR17-10N



PIER 10 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

PIER 10 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50

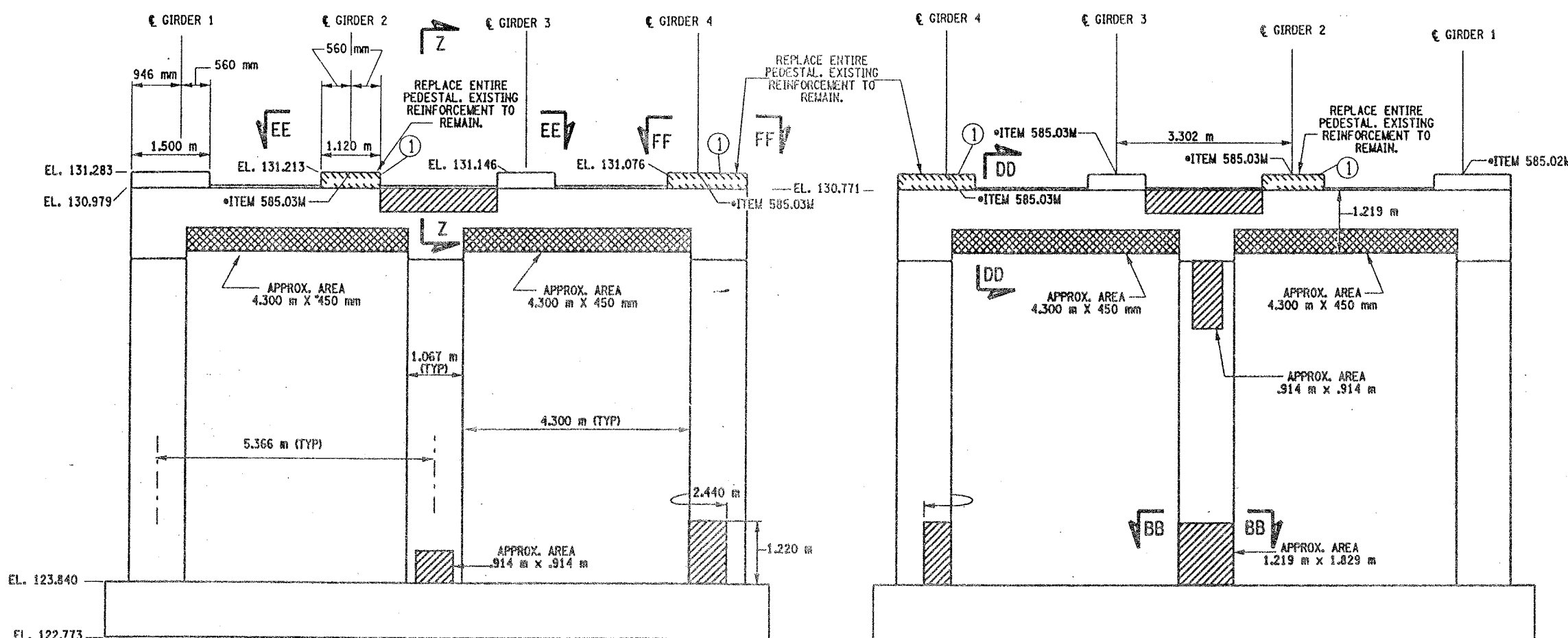


- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (CA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (CA)



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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

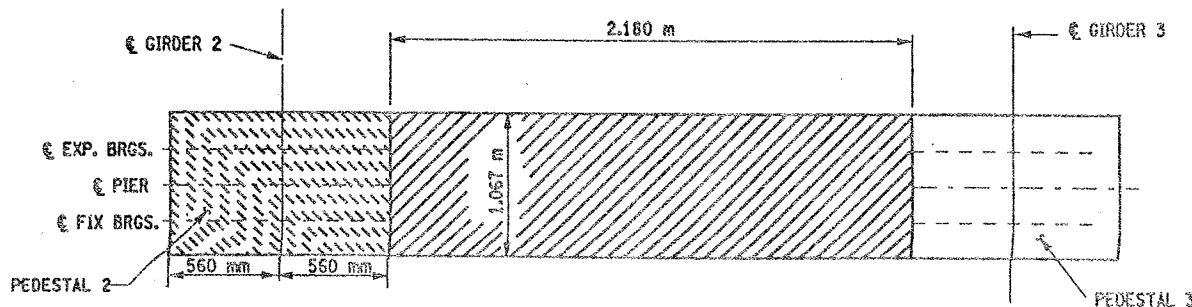
FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	326	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	



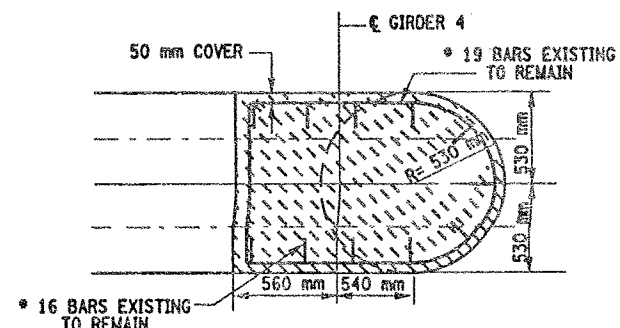
PIER 11 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

PIER 11- BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50

① INDICATES CONCRETE PLACEMENT NUMBER



SECTION EE-EE  
NOT TO SCALE



SECTION FF-FF  
NOT TO SCALE

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	0.80	555.0105M

- LIST OF ITEMS USED
- ITEM 555.0105M - CONCRETE FOR STRUCTURES, CLASS A (CM)
  - ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

- NOTES:
1. ALL REINFORCEMENT TO REMAIN.
  2. RESTORE TO ORIGINAL DIMENSIONS.
  3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
  6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  8. SEE DWG. PR17-10N FOR SECTION DD-DD.
  9. SEE DWG. PR17-12S FOR SECTION BB-BB.
  10. SEE DWG. PR17-7N FOR SECTION Z-Z.
  11. PEDESTALS 2 AND 4 SHALL BE REPLACED TO EXISTING DIMENSIONS, ITEM 555.0105 M
  12. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  13. FOR JACKING NOTES SEE DWG. PR17-1S.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)
  - ITEM 580.01 M - REMOVAL OF STRUCTURAL CONCRETE. (CM) AND ITEM 555.0105 M - CONCRETE FOR STRUCTURES CLASS A. (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS	
SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 11	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P11	REGION 3
DATE 10/02	DRAWING NO. PR17-11N



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JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
		D259214	327	432
1	N.Y.			
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

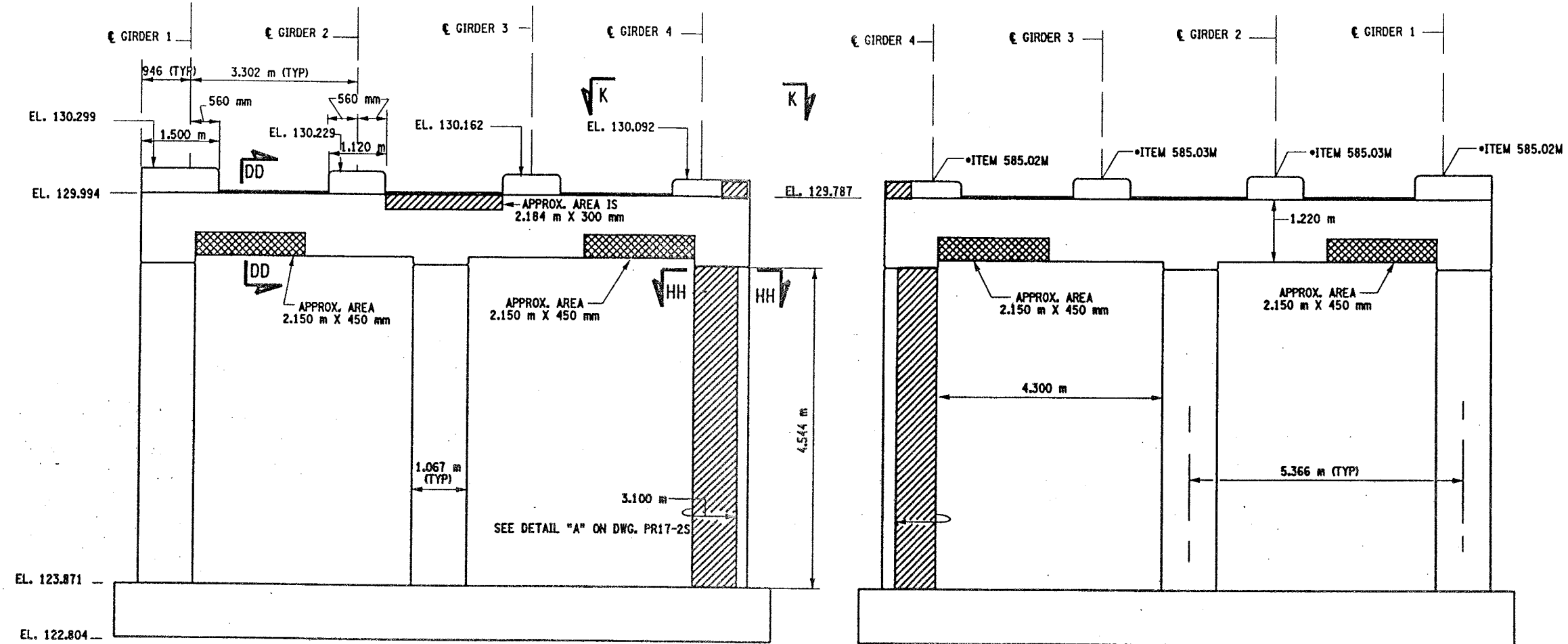
- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG PR17-10N FOR SECTION DO-DD.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED			
<u>AS BUILT REVISIONS</u>			
<u>SIGNATURE</u>		<u>DATE</u>	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 12			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P12	REGION 3	DATE 10/02	DRAWING NO. PR17-12N

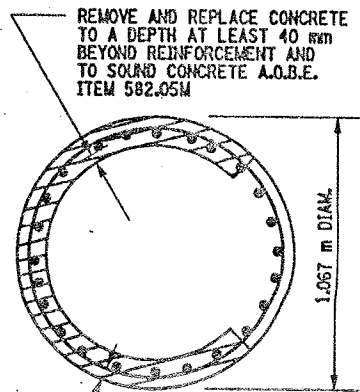


PIER 12 - FRONT FACE (LOOKING NORTH)

BIN 1093572  
SCALE: 1 TO 50

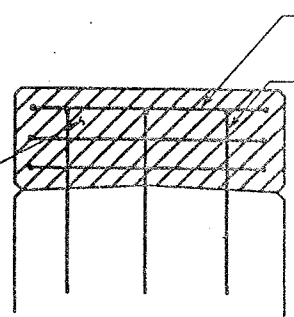
PIER 12 - BACK FACE (LOOKING SOUTH)

BIN 1093572  
SCALE: 1 TO 50

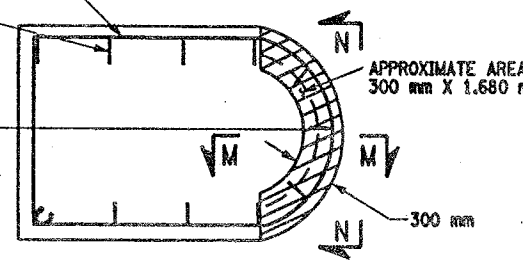


SECTION HH-HH

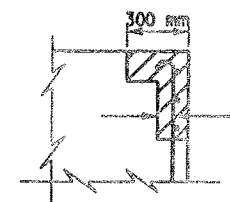
NOT TO SCALE



SECTION N-N  
NOT TO SCALE



SECTION K-K  
NOT TO SCALE

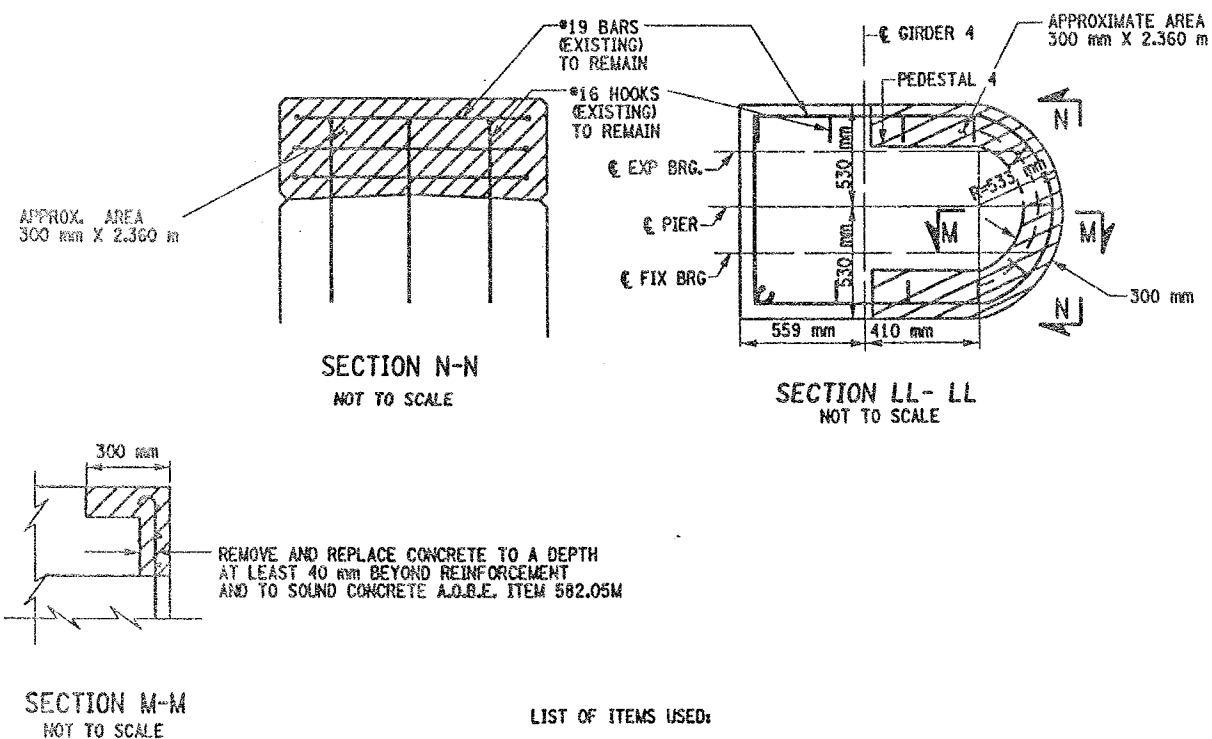
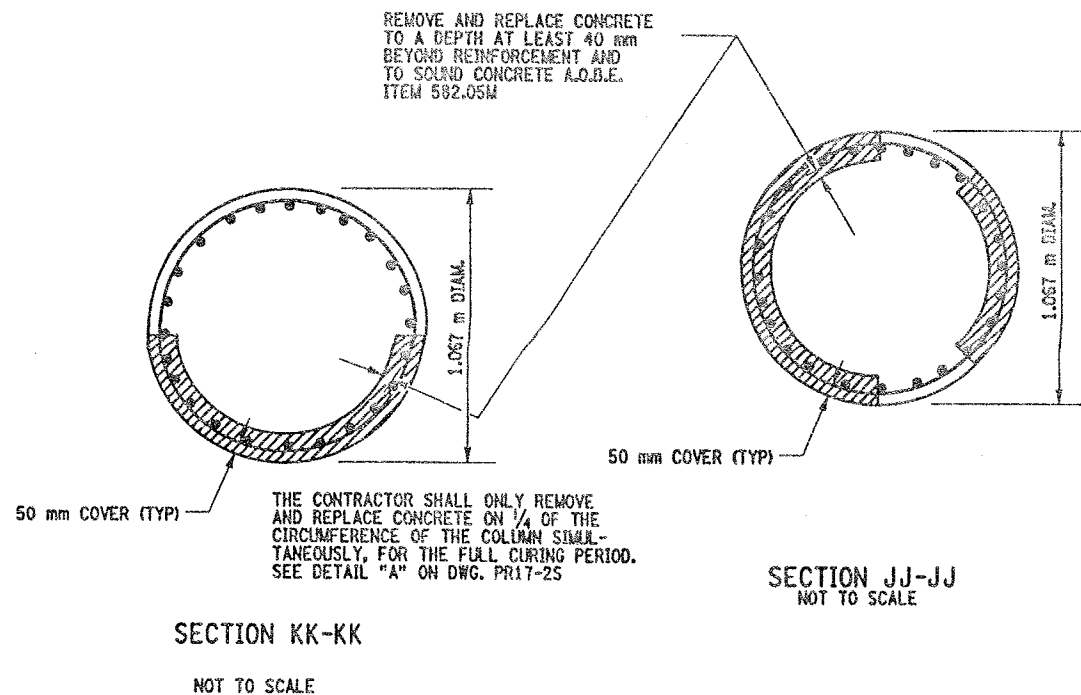
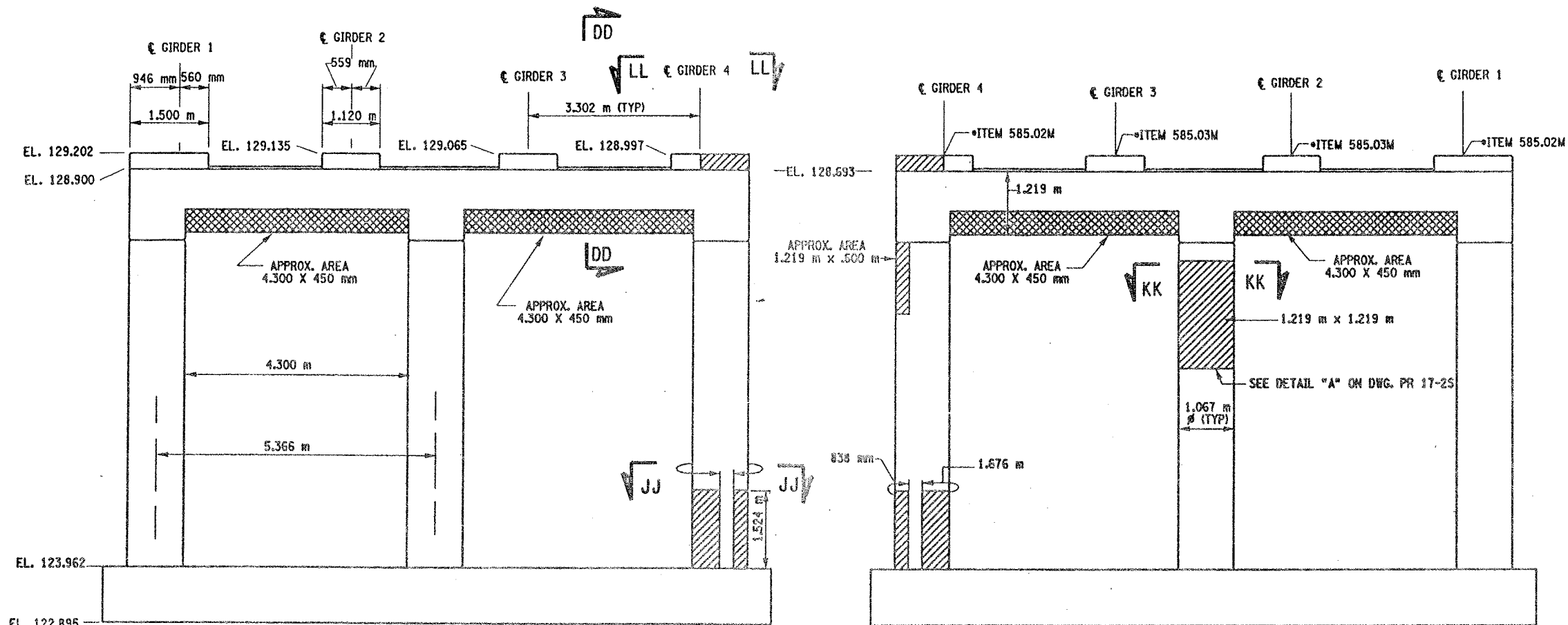


SECTION M-M  
NOT TO SCALE

- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	328	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)

VARIOUS BRIDGES ON INTERSTATE 481

TOWNS OF DEWITT AND CICERO

ONONDAGA COUNTY

P.I.N. 305613

B.I.N. 1093572

NOTES:

- ALL REINFORCEMENT TO REMAIN.
- RESTORE TO ORIGINAL DIMENSIONS.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
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- PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
- SEE DWG. PR 17-10N FOR SECTION DD-DD.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
- FOR JACKING NOTES SEE DWG PR17-15.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481 NB  
OVER  
CSX RAILROAD YARD  
PIER 13

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P13	3	10/02	PR17-13N



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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	329	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
ONONDAGA COUNTY	
P.I.N. 305613	B.I.N. 1093572

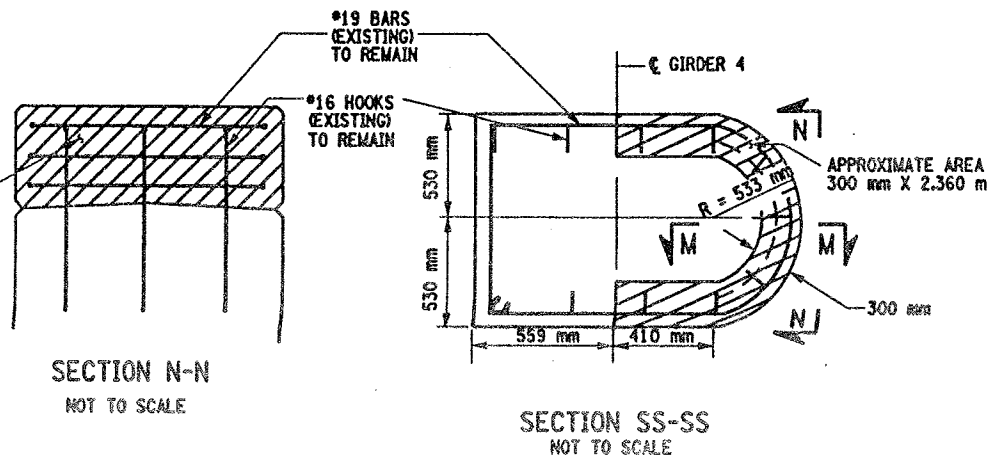
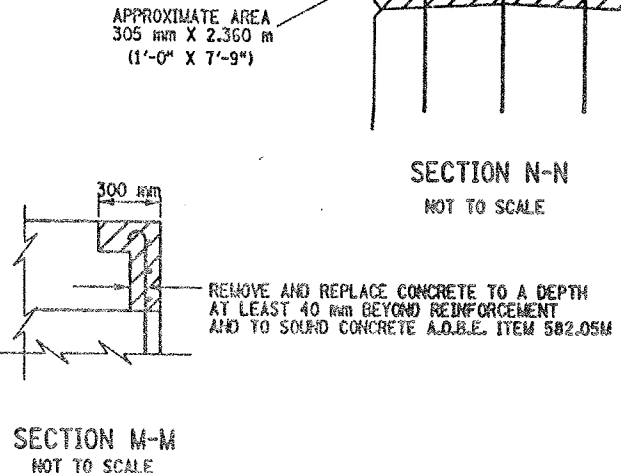
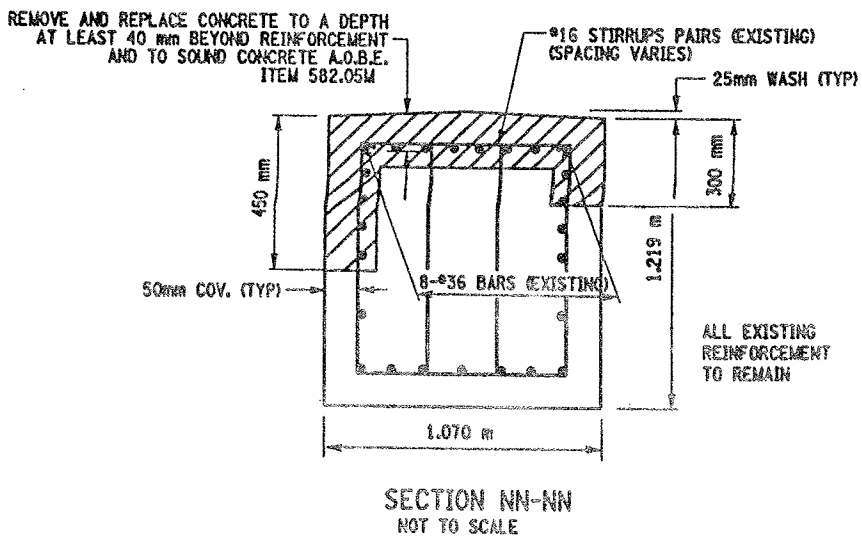
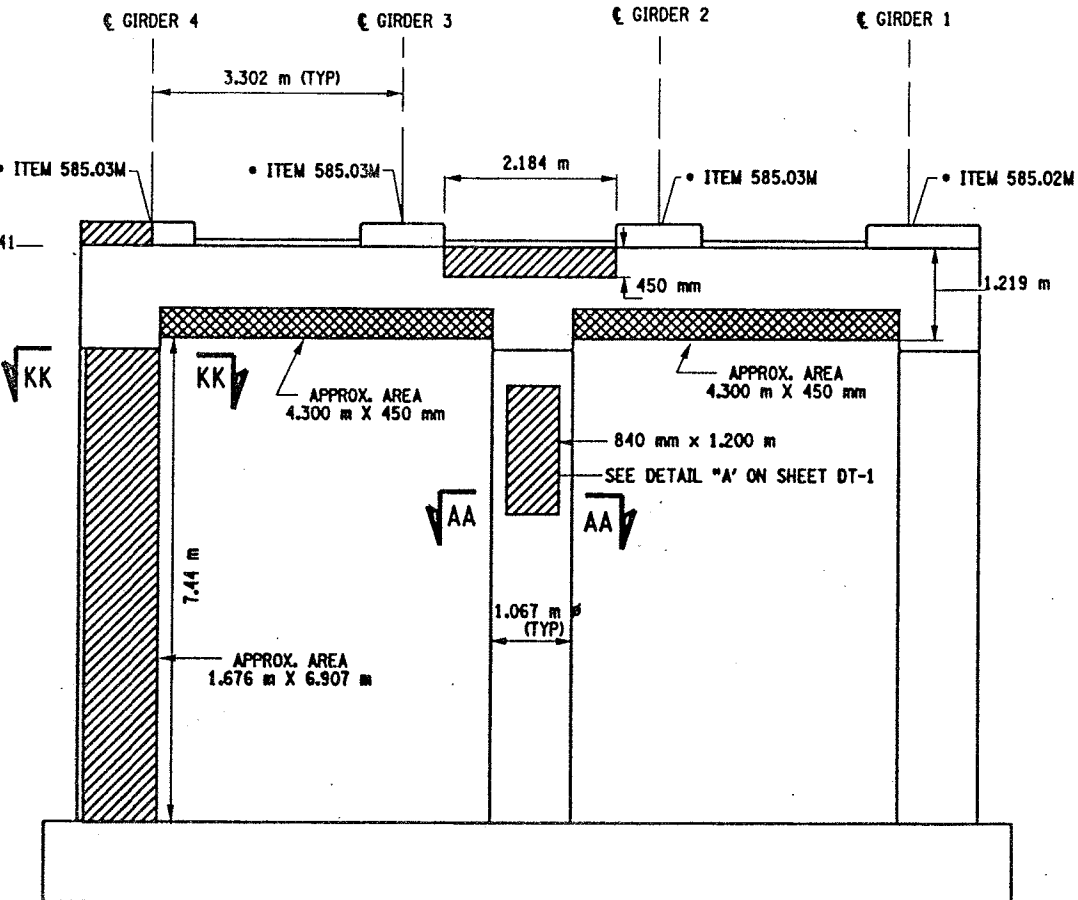
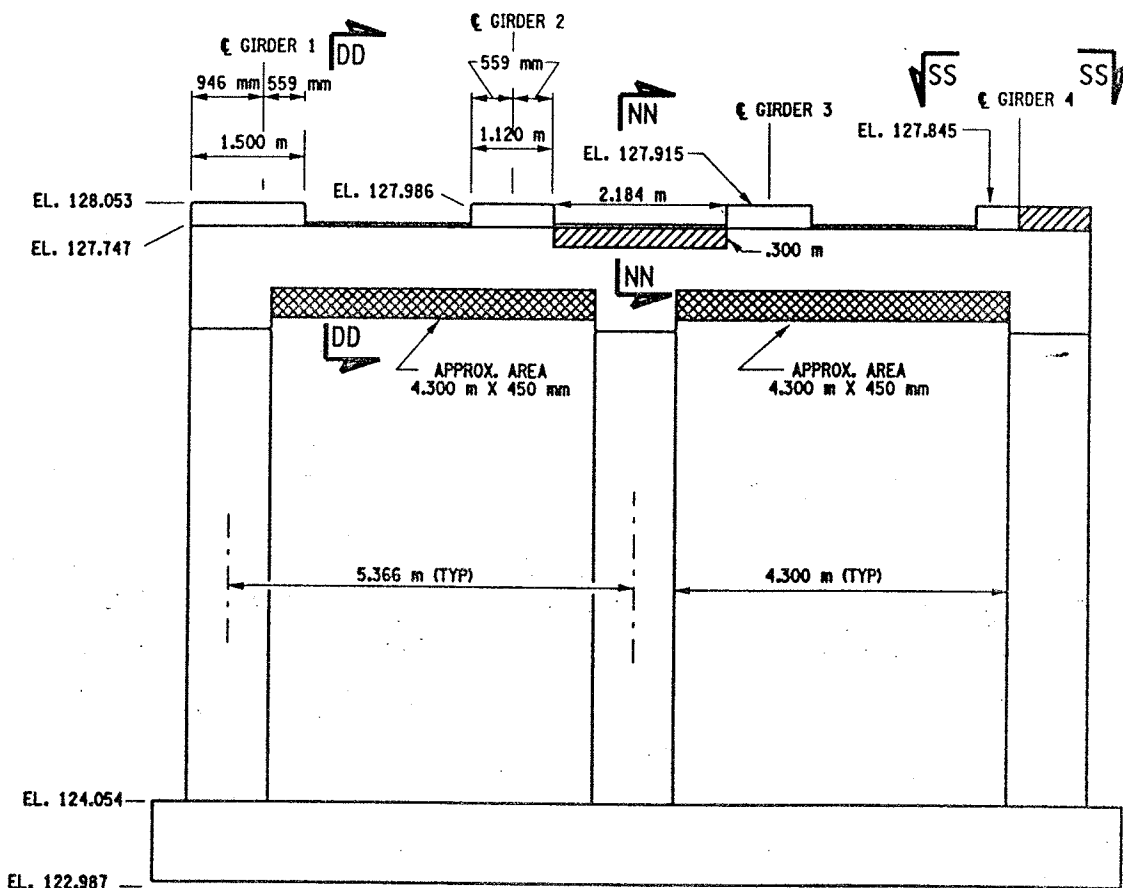
- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-10N FOR SECTION DD-DD.
  - SEE DWG. PR17-7N FOR SECTION AA-AA.
  - SEE DWG. PR17-13N FOR SECTION KK-KK.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL. (SM)

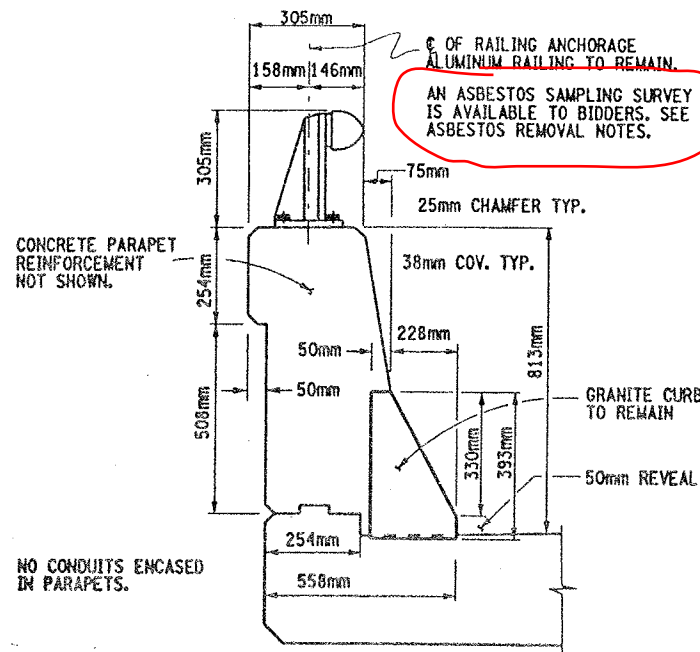
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED	
AS BUILT REVISIONS	
SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 14	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P14	REGION 3
DATE 10/02	DRAWING NO. PR17-14N



- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

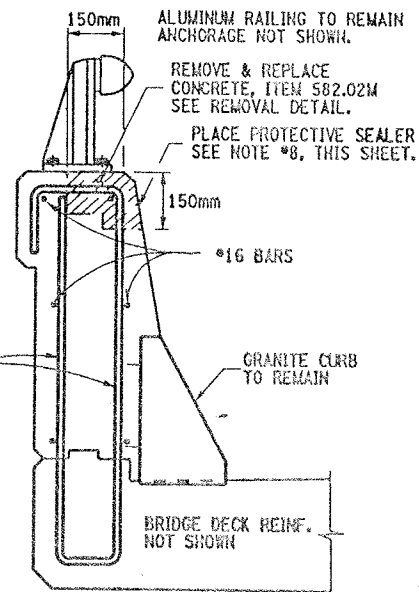


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CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



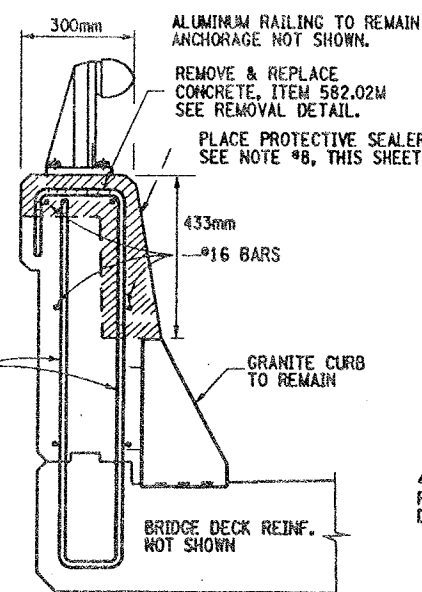
TYPICAL SECTION THRU SUPERSTRUCTURE  
PARAPET CONCRETE DETAILS

NOT TO SCALE



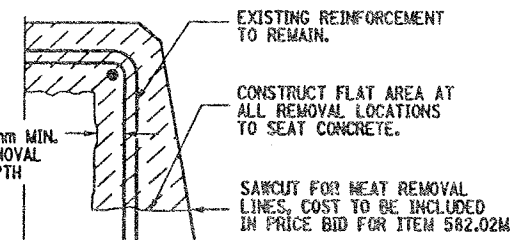
① REPAIR DETAILS  
150mmX150mm TOP

NOT TO SCALE



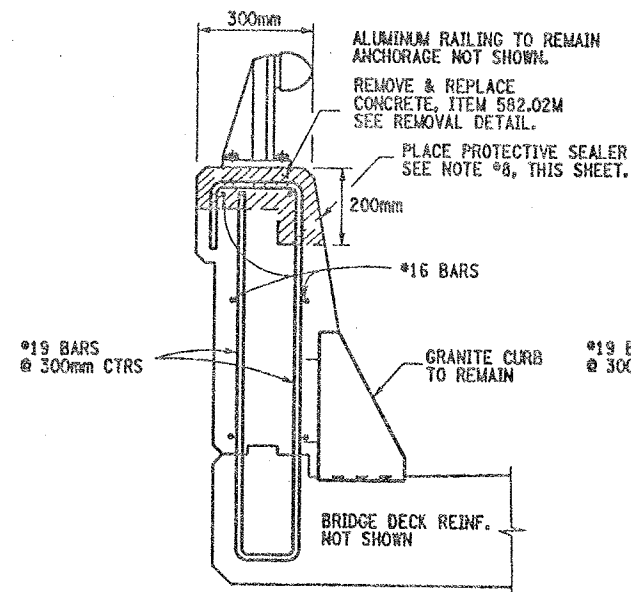
② REPAIR DETAILS  
FULL TOP & FRONT FACE

NOT TO SCALE



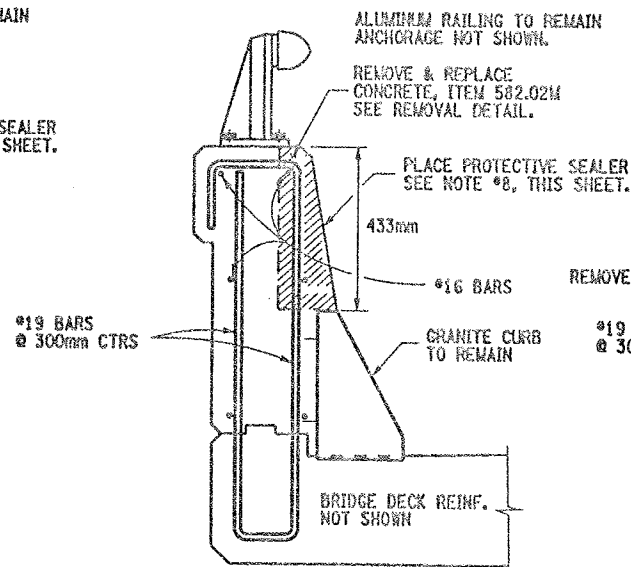
TYPICAL REMOVAL DETAIL

NOT TO SCALE



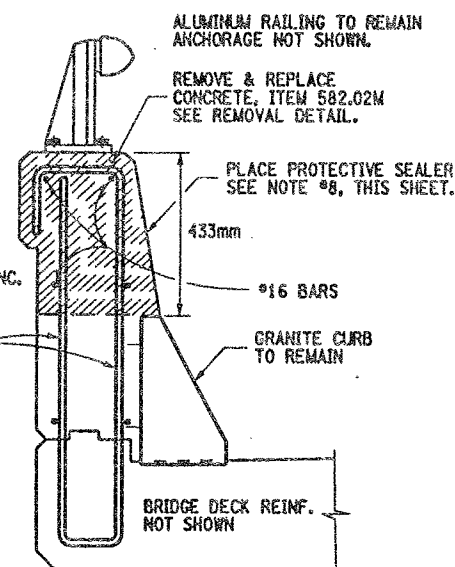
③ REPAIR DETAILS  
FULL TOP & 200mm FACE

NOT TO SCALE



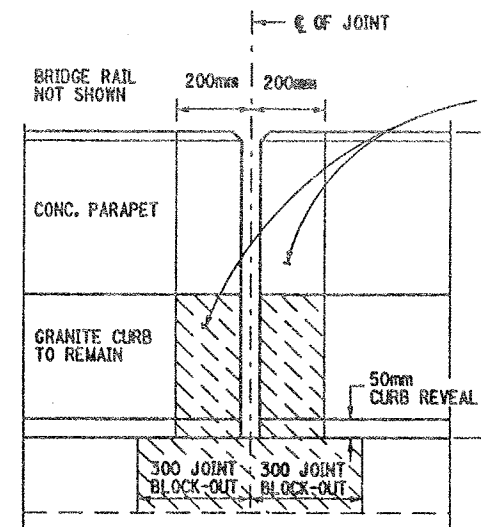
④ REPAIR DETAILS  
FRONT FACE

NOT TO SCALE



⑤ REPAIR DETAILS  
FULL SECTION

NOT TO SCALE



FRONT FACE PARAPET CONCRETE DETAIL  
SHOWS TYPICAL CONC. REMOVAL AT JOINT

NOT TO SCALE

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	330	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

CONCRETE PARAPET REPAIR NOTES:

1. ALUMINUM RAILING TO REMAIN, ANCHORAGE NOT SHOWN.
2. EXISTING PARAPET REINFORCEMENT TO REMAIN.
3. GRANITE CURB TO REMAIN, ANCHOR BARS NOT SHOWN.
4. REMOVAL OF CONCRETE TO LIMITS SHOWN, ABOVE. SEE TYPICAL REMOVAL DETAIL, THIS SHEET.
5. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
6. CONTRACTOR SHALL RESTORE CONCRETE PARAPET TO ORIGINAL DIMENSIONS.
7. IT IS DESIRABLE TO RETAIN ALL EXISTING GRANITE CURB, BUT AT SOME LOCATIONS ADJACENT TO THE JOINT BLOCK-OUTS IT MAY BE NECESSARY TO REPLACE OR REPAIR THE SECTION OF CURB, TO THE SATISFACTION OF THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR ITEM 582.05M.
8. AFTER PARAPET REPAIRS ARE COMPLETED AND SUFFICIENT CURE TIME AS DECIDED BY ENGINEER, APPLY A COATING TYPE PROTECTIVE SEALERS WHICH MEETS MATERIAL SPECIFICATION 717-04. THIS PROTECTIVE SEALER SHALL BE APPLIED TO THE FRONT FACE AND TOP OF ALL PARAPETS (REPAIRED AREAS & ORIGINAL AREAS) TO ENSURE A UNIFORMED APPEARANCE. COST OF THIS SEALER TO BE INCLUDED IN PRICE BID FOR ITEM 18559.1696 M.

THE CONCRETE REMOVAL & REPLACEMENT AT THE JOINT BLOCK-OUT AREA SHALL BE PAID FOR UNDER THE JOINT REPLACEMENT ITEMS.

REFER TO DRAWING NO. JD-53 FOR JOINT BLOCK-OUT DETAILS.

613mm HEIGHT OF PARAPET

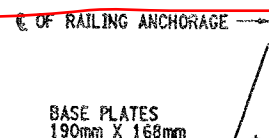
ASBESTOS MATERIAL REMOVAL NOTES:

THE REMOVAL OF ALL ASBESTOS CONTAINING CAULK (ITEM 210.5433M) SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY PARAPET REPAIR WORK.

THIS REMOVAL OF THE ASBESTOS CAULK SHALL BE PERFORMED AT EACH BRIDGE RAIL BASE PLATE ON BOTH N.B. & S.B. BRIDGES. REMOVE ASBESTOS CAULKING AT ALL RAIL BASE PLATES BOTH BRIDGES.

AFTER COMPLETION OF THE PARAPET REPAIRS INSTALL A CAULKING COMPOUND AROUND THE BASE PLATES OF THE RAILING WHICH MEETS MATERIAL SPEC. 705-06 AND IS ACCEPTABLE TO THE ENGINEER. PAID UNDER ITEM 210.5433M.

REFER TO ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 FOR RAIL LAY-OUT DETAILS.



TYPICAL BRIDGE RAIL DETAIL

NOT TO SCALE

REMOVE EXISTING GRAY ASBESTOS CAULKING COMPOUND AT THE ALUMINUM RAILING BASE PLATES. IT IS ASSUMED THAT THE CAULK COMPOUND IS SURROUNDING (PERIMETER) THE RAILING BASE PLATES. THIS PERIMETER REMOVAL OPERATION SHALL BE PERFORMED AT EACH RAILING BASE PLATE ON BOTH STRUCTURES.

HOWEVER, SOME CAULK MATERIAL MAY BE FOUND UNDER THE RAILING BASE PLATES. THIS CAULKING COMPOUND UNDER THE BASE PLATES SHALL BE REMOVED ONLY AT LOCATIONS WHERE THE PARAPET CONCRETE REPAIRS WILL DISTURB THE MATERIAL (REMOVAL AS ENCOUNTERED).

ALL COSTS TO BE PAID UNDER ITEM 210.5433M. SEE ASBESTOS MATERIAL REMOVAL NOTES, THIS SHEET.

ITEMS USED:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE, REPLACE WITH CLASS "A" CONCRETE (CM)
- ITEM 210.5433M - REMOVAL & DISPOSAL OF ASBESTOS CONTAINING CAULK (BY 12) (S)
- ITEM 18559.1696M - PROTECTIVE SEALING OF STRUCTURAL CONCRETE (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 OVER CSX RR YARD

PARAPET REPAIR DETAILS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	PW17-1



CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

PARAPET REPAIR TABLE (ITEM 582.05M)			
BIN 1093571			
STATION TO STATION	RIGHT SIDE (EAST)	LEFT SIDE (WEST)	REMARKS
SPAN 1 6+626.288 TO 6+627.588	1.300m		① REPAIR PROCEDURE
6+653.795 TO 6+654.495	.700m		② REPLACE FULL SECTION
6+653.595 TO 6+654.495		.900m	② REPLACE FULL SECTION
SPAN 2 6+654.895 TO 6+655.505	.600m		② REPLACE FULL SECTION
6+654.895 TO 6+655.505		.600m	② REPLACE FULL SECTION
6+654.895 TO 6+664.895	10.000m		① REPAIR PROCEDURE
6+669.995 TO 6+673.695	3.700m		① REPAIR PROCEDURE
SPAN 3 6+731.266 TO 6+735.466	4.200m		① REPAIR PROCEDURE
6+753.266 TO 6+754.266	1.000m		② REPLACE FULL SECTION
6+753.266 TO 6+754.266		1.000m	② REPLACE FULL SECTION
SPAN 4 6+754.666 TO 6+755.666	1.000m		② REPLACE FULL SECTION
6+760.466 TO 6+769.866		9.400m	① REPAIR PROCEDURE
6+760.666 TO 6+778.966	18.300m		① REPAIR PROCEDURE
6+790.116 TO 6+791.616		1.500m	① REPAIR PROCEDURE
6+789.316 TO 6+801.316	12.000m		① REPAIR PROCEDURE
6+794.116 TO 6+803.616		9.500m	② REPAIR PROCEDURE
6+813.616 TO 6+814.616	1.000m		② REPLACE FULL SECTION
6+813.616 TO 6+814.616		1.000m	② REPLACE FULL SECTION
SPAN 5 6+815.016 TO 6+816.016	1.000m		② REPLACE FULL SECTION
6+823.166 TO 6+871.166	48.000m		① REPAIR PROCEDURE
6+870.566 TO 6+874.966	4.000m		② REPLACE FULL SECTION
SPAN 6 6+875.366 TO 6+876.366	1.000m		② REPLACE FULL SECTION
6+875.366 TO 6+895.366		20.000m	② REPLACE FULL SECTION
6+875.317 TO 6+935.317	60.000m		② REPAIR PROCEDURE
6+908.317 TO 6+914.317		6.000m	② REPAIR PROCEDURE
6+920.517 TO 6+928.517		8.000m	② REPAIR PROCEDURE
6+923.317 TO 6+935.317		12.000m	② REPAIR PROCEDURE
SPAN 7 6+935.717 TO 6+947.217	11.500m		② REPAIR PROCEDURE
6+949.917 TO 6+951.417	1.500m		① REPAIR PROCEDURE
6+952.112 TO 6+967.112		15.000m	② REPAIR PROCEDURE
6+967.012 TO 6+969.612	2.600m		② REPAIR PROCEDURE
SPAN 8 6+973.512 TO 7+010.907	37.400m		① REPAIR PROCEDURE
6+981.907 TO 6+990.407		8.500m	② REPAIR PROCEDURE
6+996.907 TO 7+010.907		14.000m	② REPAIR PROCEDURE
SPAN 9 7+011.307 TO 7+048.702		37.400m	② REPAIR PROCEDURE
SPAN 10 7+070.325 TO 7+074.325		4.000m	② REPAIR PROCEDURE
SPAN 11 7+091.825 TO 7+098.825	7.000m		① REPAIR PROCEDURE
7+102.525 TO 7+106.025	3.500m		① REPAIR PROCEDURE
7+100.325 TO 7+108.325		8.000m	① REPAIR PROCEDURE
7+109.325 TO 7+110.825	1.500m		① REPAIR PROCEDURE
7+112.725 TO 7+128.725		16.000m	① REPAIR PROCEDURE
7+114.825 TO 7+117.825	3.000m		① REPAIR PROCEDURE
SPAN 12 7+129.125 TO 7+166.825		37.700m	② REPAIR PROCEDURE
7+131.925 TO 7+137.925	6.000m		② REPAIR PROCEDURE
7+158.025 TO 7+159.525	1.500m		② REPAIR PROCEDURE
SPAN 13 7+167.225 TO 7+204.925	37.700m		① REPAIR PROCEDURE
7+172.225 TO 7+184.225		12.000m	① REPAIR PROCEDURE
7+189.925 TO 7+204.925		15.000m	① REPAIR PROCEDURE
SPAN 14 7+205.325 TO 7+243.025	37.700m		① REPAIR PROCEDURE
7+205.325 TO 7+243.025		37.700m	② REPAIR PROCEDURE
SPAN 15 7+243.425 TO 7+281.530		38.100m	② REPAIR PROCEDURE
7+248.530 TO 7+254.330	5.800m		② REPAIR PROCEDURE
7+257.430 TO 7+262.030	4.600m		① REPAIR PROCEDURE
7+265.030 TO 7+266.530	1.500m		① REPAIR PROCEDURE
7+268.230 TO 7+271.730	3.500m		① REPAIR PROCEDURE

\* FULL SECTION REPLACEMENT AS DIRECTED BY ENGINEER TO INCLUDE IF NECESSITY, REPLACEMENT OR REPAIR OF THE GRANITE CURB. ALL COST TO BE INCLUDED IN BID PRICE FOR ITEM 582.05M.

(BACKFACE) INDICATES REPAIR AREA IS ON THE OUTSIDE OR BACKFACE OF PARAPET. CAUTION MUST BE TAKEN WHEN WORKING OVER R.R. TRACKS.

PARAPET REPAIR TABLE (ITEM 582.05M)			
BIN 1093572			
STATION TO STATION	RIGHT SIDE (EAST)	LEFT SIDE (WEST)	REMARKS
SPAN 1 6+578.084 TO 6+582.084	4.000m		① REPAIR PROCEDURE
6+592.589 TO 6+594.789	2.200m		① REPAIR PROCEDURE
6+593.884 TO 6+600.884		7.000m	① REPAIR PROCEDURE (BACKFACE)
6+597.489 TO 6+599.489	2.000m		① REPAIR PROCEDURE
6+600.581 TO 6+608.297	7.700m		① REPAIR PROCEDURE
6+602.697 TO 6+608.297		5.600m	① REPAIR PROCEDURE (BACKFACE)
SPAN 2 6+608.697 TO 6+620.197		11.500m	① REPAIR PROCEDURE (BACKFACE)
6+639.497 TO 6+641.497		2.000m	① REPAIR PROCEDURE (BACKFACE)
6+646.997 TO 6+653.497		6.500m	① REPAIR PROCEDURE (BACKFACE)
SPAN 3 6+662.597 TO 6+664.597		2.000m	② REPAIR PROCEDURE
6+676.097 TO 6+684.097	8.000m		① REPAIR PROCEDURE
6+697.097 TO 6+698.097	1.000m		① REPAIR PROCEDURE
6+707.070 TO 6+708.070	1.000m		② REPLACE FULL SECTION *
6+707.070 TO 6+708.070		1.000m	② REPLACE FULL SECTION *
SPAN 4 6+708.470 TO 6+709.470	1.000m		② REPLACE FULL SECTION
6+715.570 TO 6+757.070	41.500m		① REPAIR PROCEDURE
6+719.070 TO 6+728.070		9.000m	① REPAIR PROCEDURE
6+750.420 TO 6+768.420		18.000m	② REPAIR PROCEDURE
6+767.420 TO 6+768.420		1.000m	② REPLACE FULL SECTION
SPAN 5 6+768.820 TO 6+770.320	1.500m		② REPLACE FULL SECTION
6+773.120 TO 6+786.120	13.000m		① REPAIR PROCEDURE
6+778.920 TO 6+783.220		4.300m	① REPAIR PROCEDURE
6+799.620 TO 6+802.120		2.500m	① REPAIR PROCEDURE
6+804.620 TO 6+815.620	11.000m		① REPAIR PROCEDURE
6+826.771 TO 6+828.771		2.000m	② REPLACE FULL SECTION
SPAN 6 6+829.171 TO 6+830.171	1.000m		② REPLACE FULL SECTION
6+829.171 TO 6+830.171		1.000m	② REPLACE FULL SECTION
6+830.171 TO 6+888.771		58.600m	② REPAIR PROCEDURE
6+846.971 TO 6+849.971	3.000m		① REPAIR PROCEDURE
6+855.621 TO 6+889.121	33.500m		① REPAIR PROCEDURE
SPAN 7 6+889.126 TO 6+926.916	37.400m		① REPAIR PROCEDURE
6+892.221 TO 6+897.521		5.300m	① REPAIR PROCEDURE
6+903.321 TO 6+907.621		4.300m	① REPAIR PROCEDURE
6+909.721 TO 6+911.721		2.000m	① REPAIR PROCEDURE
6+916.916 TO 6+926.916		10.000m	② REPAIR PROCEDURE
SPAN 8 6+927.316 TO 6+964.712	37.400m		② REPAIR PROCEDURE
SPAN 9 6+965.112 TO 6+996.112	31.000m		① REPAIR PROCEDURE
SPAN 10 7+014.602 TO 7+023.602		9.000m	② REPAIR PROCEDURE
7+020.302 TO 7+040.302	20.000m		② REPAIR PROCEDURE
SPAN 11 7+044.302 TO 7+046.302		2.000m	① REPAIR PROCEDURE
7+060.397 TO 7+067.697	7.300m		① REPAIR PROCEDURE
SPAN 12 7+099.892 TO 7+101.892	2.000m		① REPAIR PROCEDURE
SPAN 13 7+119.492 TO 7+125.492		6.000m	① REPAIR PROCEDURE
7+168.283 TO 7+186.283		18.000m	① REPAIR PROCEDURE
7+168.983 TO 7+191.483	22.500m		① REPAIR PROCEDURE
SPAN 14 7+171.093 TO 7+191.483	20.400m		① REPAIR PROCEDURE
7+165.783 TO 7+179.283		13.500m	① REPAIR PROCEDURE
SPAN 15 7+197.883 TO 7+199.883		2.000m	① REPAIR PROCEDURE
7+198.283 TO 7+229.683	31.400m		① REPAIR PROCEDURE

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	331	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

# GENERAL NOTES:

WORK ADJACENT TO JOINT BLOCK-OUT (200mm) SHALL BE INCLUDED IN THE BRIDGE JOINT REPLACEMENT ITEMS. SEE DRAWING NO. JD-53 FOR JOINT BLOCK-OUT REMOVAL DETAILS.

SOME REPAIRS ARE ON THE BACK FACE OF THE PARAPETS. SOME OF THIS WORK MAY BE OVER THE RAIL ROAD TRACKS.

REFER TO DRAWING NO. PW17-1 FOR CONCRETE REMOVAL DETAILS AND NOTES.

STATIONING AND DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR AND ENGINEER.

REFER TO RECONSTRUCTION NOTES ON DRAWING NO. GN-1.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
TABLE OF PARAPET REPAIRS

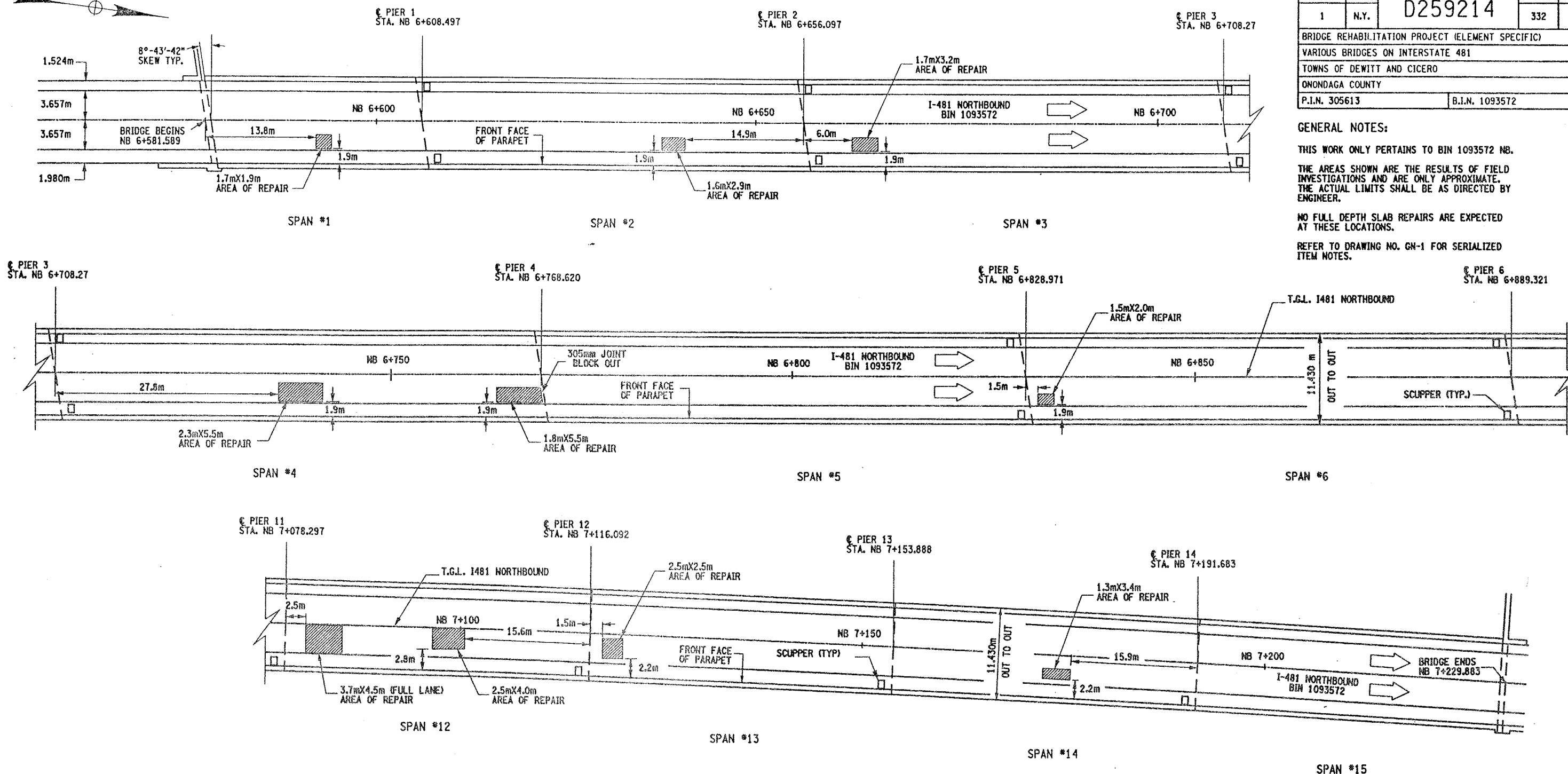


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	PW17-2



CHECKED BY  
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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



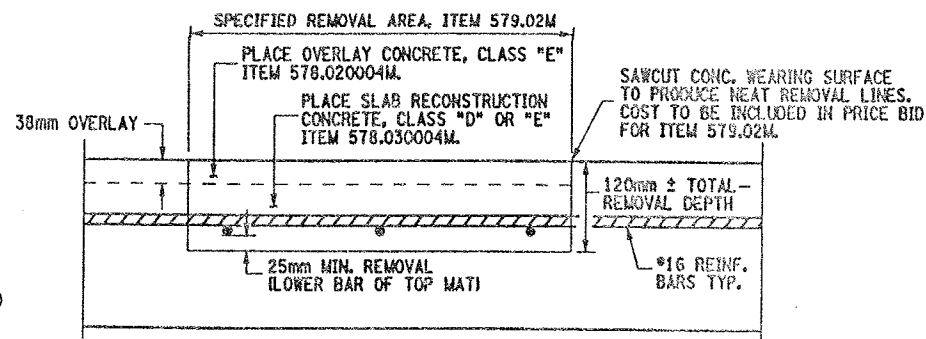
#### REMOVAL NOTES:

ORIGINAL BRIDGE DECK 203mm MONOLITHIC SLAB.  
A 38mm CONC. OVERLAY HAS BEEN ADDED.

THESE LOCATIONS ARE CURRENTLY FILLED WITH  
ASPHALT (BLACKTOP). DEPTH OF ASPHALT IS  
UNKNOWN, ESTIMATED AT 38mm. THE REMOVAL  
OF THE ASPHALT AND CONCRETE TO LIMITS SHOWN  
TO BE PAID UNDER ITEM 579.02M.

REMOVE CONCRETE TO LIMITS SHOWN AND TO SOUND  
CONCRETE, AS ORDER BY ENGINEER.

ALL AREAS THAT ARE REPAIRED SHALL ALSO RECEIVE  
ITEM 558.01 - TRANSVERSE SAWCUT GROOVING AND  
ITEM 18559.1896M - PROTECTIVE SEALING.



CROSS SECTION VIEW THROUGH REPAIR LOCATION

NOT TO SCALE

#### PLAN VIEW OF SPOT DECK REPAIRS

NOT TO SCALE

#### ITEMS USED:

- ITEM 558.01M - TRANSVERSE SAWCUT GROOVING (SM)
- ITEM 18559.1896M - PROTECTIVE SEALING FOR STRUCT. CONC. (SM)
- ITEM 578.020004M - OVERLAY CONCRETE, CLASS "E" (SM)
- ITEM 578.030004M - SLAB RECONSTRUCTION CONCRETE, CLASS "D" OR "E" (SM)
- ITEM 579.02M - REINFORCING BAR EXPOSURE (SM)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	332	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093572

#### GENERAL NOTES:

THIS WORK ONLY PERTAINS TO BIN 1093572 NB.

THE AREAS SHOWN ARE THE RESULTS OF FIELD  
INVESTIGATIONS AND ARE ONLY APPROXIMATE.  
THE ACTUAL LIMITS SHALL BE AS DIRECTED BY  
ENGINEER.

NO FULL DEPTH SLAB REPAIRS ARE EXPECTED  
AT THESE LOCATIONS.

REFER TO DRAWING NO. GN-1 FOR SERIALIZED  
ITEM NOTES.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

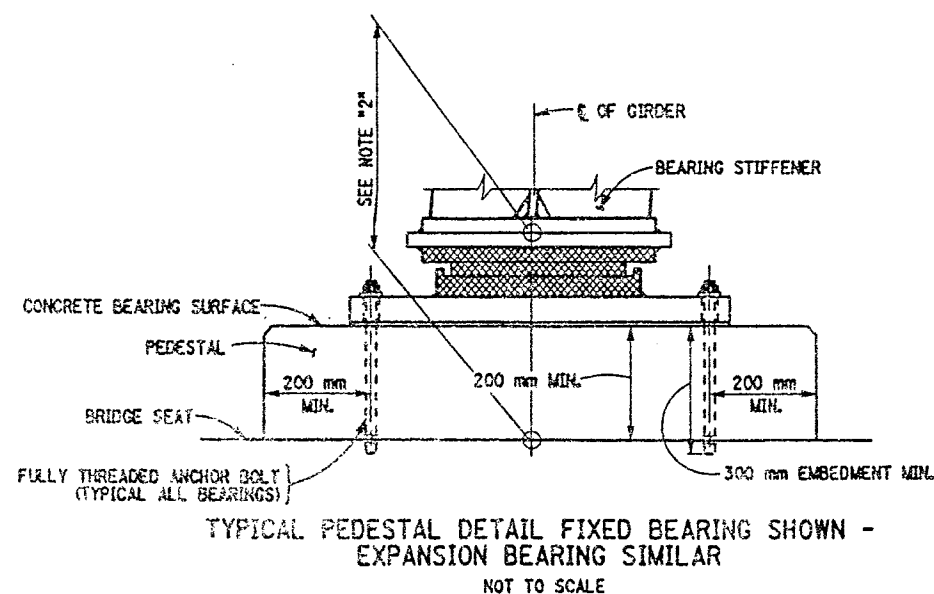
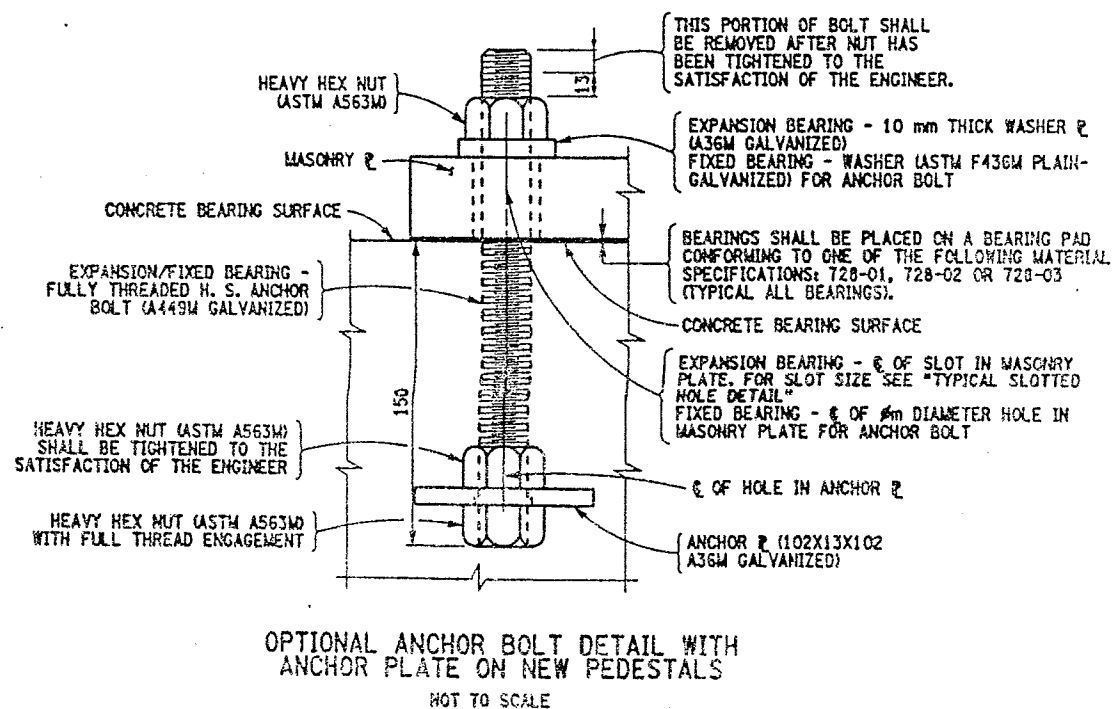
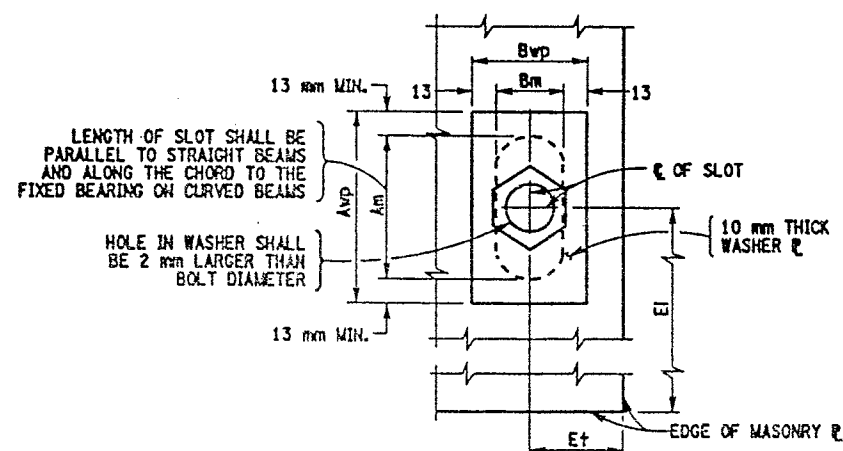
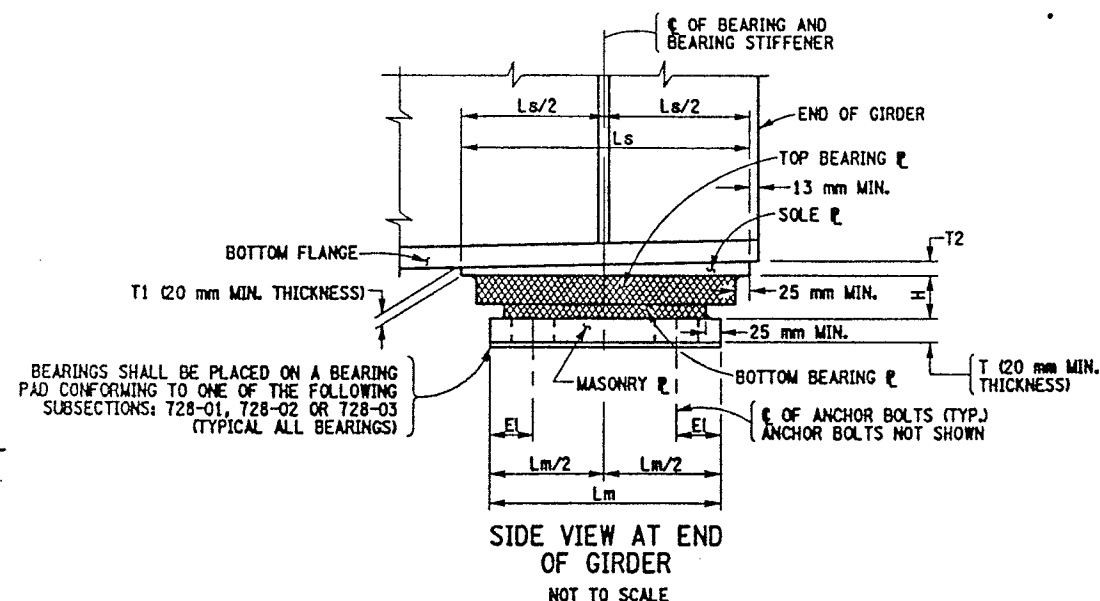
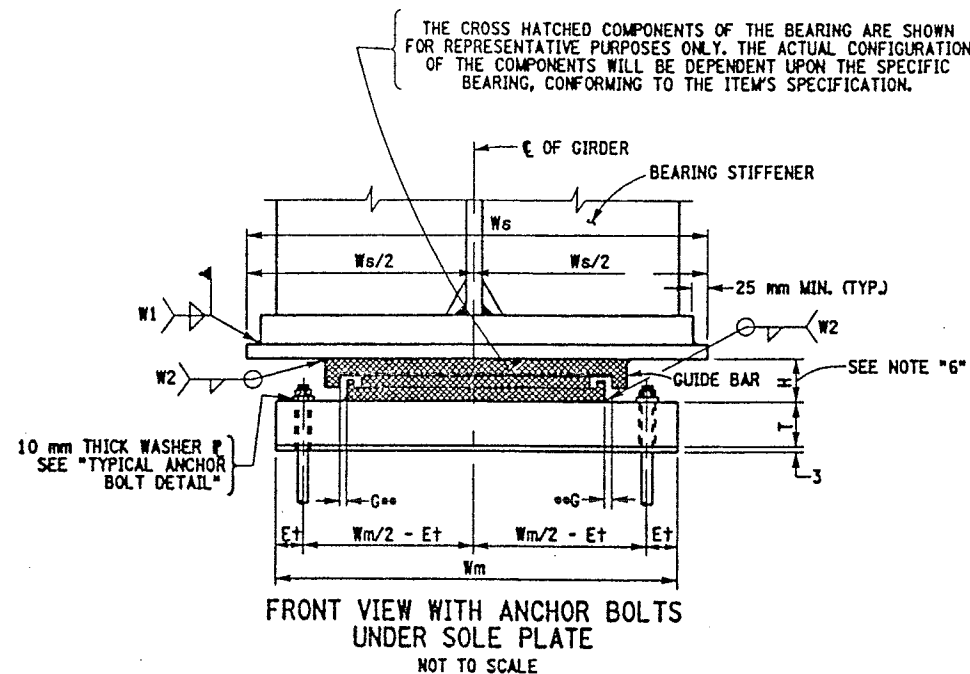
INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
BRIDGE DECK REPAIRS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	DR17-1





FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	341	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.J.N. VARIOUS	

**NOTES:**

- THE CONTRACTOR SHALL SUPPLY MULTI-ROTATIONAL STRUCTURAL BRIDGE BEARINGS CONFORMING TO THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 565 AND SUBJECT TO THE FOLLOWING CONDITIONS:
1. THE BEARING DEVICES SUPPLIED SHALL BE CAPABLE OF TRANSMITTING THE LOADS AND MOVEMENT SHOWN ON THESE PLANS.
  2. THE DIMENSION "H" IN THE BEARING TABLE REPRESENTS THE ASSUMED TOTAL HEIGHT OF BEARING MECHANISM BETWEEN THE SOLE PLATE AND MASONRY PLATE USED BY THE DESIGNER TO ESTABLISH THE PEDESTAL ELEVATIONS. THE MINIMUM PEDESTAL HEIGHT SHALL NOT BE CHANGED WITHOUT WRITTEN APPROVAL OF THE DEPUTY CHIEF ENGINEER (STRUCTURES).
  3. MASONRY PLATES ARE TO BE DESIGNED. THE MINIMUM CONCRETE EDGE DISTANCE SHALL BE 75 mm AND THE MINIMUM ANCHOR BOLT COVER SHALL BE 200 mm.
  4. THE BEARING DEVICE, MASONRY PLATE, SOLE PLATE, ANCHOR BOLTS, NUTS, WASHER PLATES AND BEARING PAD SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEMS.
  5. ALL EXPANSION BEARINGS SHALL HAVE A MAXIMUM FRICTION COEFFICIENT OF 3%.
  6. IF THE ANCHOR BOLTS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 25 mm SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF THE SOLE PLATE.
  7. ALL STEEL SHALL CONFORM TO ASTM A588M.
  8. ALL METAL COMPONENTS OF THE BEARING SYSTEM WHICH ARE LIABLE TO COME INTO CONTACT DURING THE TRANSLATION SHALL HAVE A TEFLON SLIDING SURFACE FINISH.
  9. ALL STEEL FABRICATION SHALL CONFORM TO THE PROVISIONS OF THE LATEST EDITION OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.

WHENEVER JACKING OF THE SUPERSTRUCTURE IS NEEDED TO RESET THE BEARINGS, THE CONTRACTOR SHALL SUBMIT A JACKING SEQUENCE TO THE E.C. FOR APPROVAL.

LIST OF ITEMS USED:

- ITEM 565.1522M - TYPE M.R. EXPANSION BEARING (1001 TO 2000KN) (EA)  
ITEM 565.1722M - TYPE M.R. FIXED BEARING (1001 TO 2000KN) (EA)

\*ONE WAY LONGITUDINAL MOVEMENT IS THE MAXIMUM ONE WAY MOVEMENT (EXPANSION OR CONTRACTION) OF THE SUPERSTRUCTURE WHEN BEARINGS ARE SET @ 20°C PLUS 25 MILLIMETERS OF TOLERANCE.

\*-ON WIDE STRUCTURES AND ON CURVED STRUCTURES PROVISIONS SHALL BE MADE FOR LIMITED LATERAL MOVEMENT.

ALL DIMENSIONS ARE IN IN UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

## MULTI ROTATIONAL BEARINGS

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO
305613AE.M1A	3	10/02	BR-1

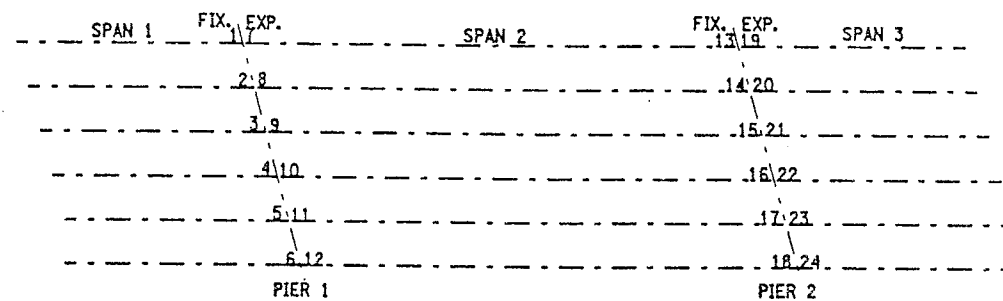


DESIGN SUPERVISOR  
JOB MANAGER  
DESIGNED BY  
CHECKED BY  
ESTIMATED BY  
DRAFTED BY  
CHECKED BY

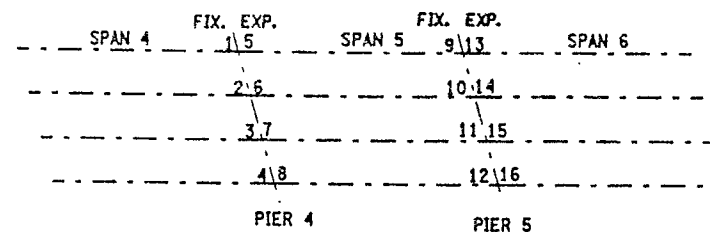
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
		D259214		
1	N.Y.		342	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

BIN	LOCATION	FIX./ EXP.	ITEM NO.	QUAN. REQ'D.	CAPACITY (KN)		*ONE WAY LONGIT. MOVEMENT	**G) GUIDE CLEARANCE	MASONRY P								WASHER P		SOLE P				BRG. H	ANCHOR BOLTS		WELD SIZE	
					VERT.	HORZ.			Lm	Wm	T	Et	El	Am	Bm	Aw	Bwp	Ls	Ws	T1	T2	Ø		BOLTS/BRG.	W1	W2	
1093571	PIER 4 @ 5 & 8 - PIER 5 @ 13 & 16	EXP.	565.1522M	4	1	556.8	295.79	63 mm		445	770	35	80	110	78	48	104	74	545	815	30	30	162	38	4	8	8
1093571	PIER 4 @ 6 & 7 - PIER 5 @ 14 & 15	EXP.	565.1522M	4	1	556.8	295.79	63 mm		445	770	35	80	110	78	48	104	74	545	660	30	30	162	38	4	8	8
1093571	PIER 4 @ 1 & 4 - PIER 5 @ 9 & 12	FIX.	565.1722M	4	1	556.8	295.79	-		445	665	62	80	110	-	-	-	-	395	815	60	60	104	38	4	8	8
1093571	PIER 4 @ 2, 3 - PIER 5 @ 10 & 11	FIX.	565.1722M	4	1	556.8	295.79	-		445	665	62	80	110	-	-	-	-	395	660	60	60	104	38	4	8	8
1002131	PIER 1 @ 1 & 8	FIX.	565.1722M	2		333.6	63.38	-		260	530	65	50	84	-	-	-	-	240	360	45	45	76	25	4	8	8
1002131	PIER 1 @ 2 - 7	FIX.	565.1722M	6		333.6	63.38	-		260	530	40	50	84	-	-	-	-	240	360	20	20	76	25	4	8	8
1002131	PIER 1 @ 9 - 16	EXP.	565.1522M	8		444.8	84.51	42 mm		260	530	40	50	84	65	35	91	61	360	360	20	20	115	25	4	8	8
1002131	PIER 2 @ 17 & 24	FIX.	565.1722M	2		444.8	84.51	-		280	530	51	50	84	-	-	-	-	260	360	20	20	84	25	4	8	8
1002131	PIER 2 @ 18 - 23	FIX.	565.1722M	6		444.8	84.51	-		280	530	40	50	84	-	-	-	-	260	360	20	20	84	25	4	8	8
1002131	PIER 2 @ 25 - 32	EXP.	565.1522M	8		333.6	63.38	33 mm		280	530	40	50	84	65	35	91	61	340	360	20	20	107	25	4	8	8
1002132	PIER 1 @ 1 & 6	FIX.	565.1722M	2		333.6	63.38	-		250	560	64	50	84	-	-	-	-	250	360	44	44	76	25	4	8	8
1002132	PIER 1 @ 2 - 5	FIX.	565.1722M	4		333.6	63.38	-		250	560	40	50	84	-	-	-	-	250	360	20	20	76	25	4	8	8
1002132	PIER 1 @ 7 - 12	EXP.	565.1522M	6		667.2	126.77	42 mm		304	670	40	50	84	65	35	91	61	400	500	20	20	123	25	4	8	8
1002132	PIER 2 @ 13 - 18	FIX.	565.1722M	6		667.2	126.77	-		304	670	40	50	84	-	-	-	-	300	500	20	20	86	25	4	8	8
1002132	PIER 2 @ 19 & 24	EXP.	565.1522M	2		333.6	63.38	33 mm		270	560	50	50	84	65	35	91	61	350	360	30	30	107	25	4	8	8
1002132	PIER 2 @ 20 - 23	EXP.	565.1522M	4		333.6	63.38	33 mm		270	560	40	50	84	65	35	91	61	350	360	20	20	107	25	4	8	8

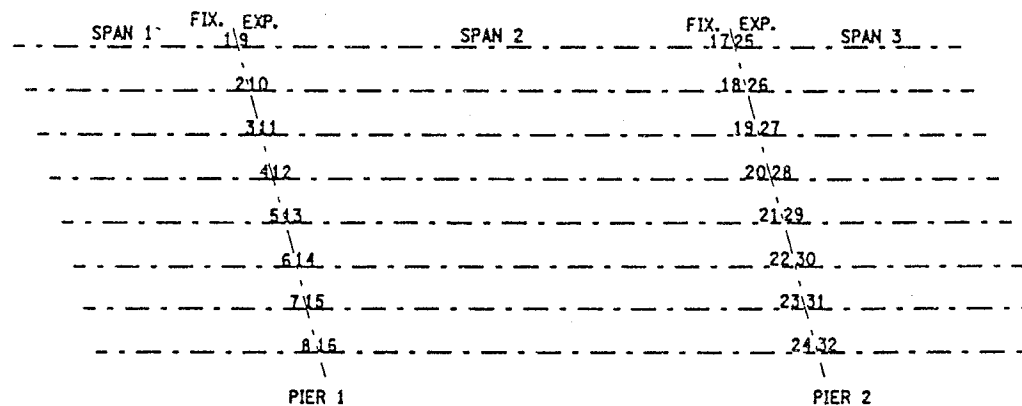
T2 IS UPSTATION OF T1.



BEARING LOCATION SCHEMATIC  
BIN 1002132



BEARING LOCATION SCHEMATIC  
BIN 1093571



BEARING LOCATION SCHEMATIC  
BIN 1002131

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE		DATE	
MULTI ROTATIONAL BEARINGS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.M1A	REGION 3	DATE 10/02	DRAWING NO. BR-2



PIER	SPAN-GIRDER	EXP. BRG. TYPE	SOLE F- DIM. "A"
SB-P1	2 - A11	III	584
SB-P3	4 - 1&4	II	813
SB-P3	4 - 2&3	II	660
SB-P6	7 - 1&4	II	508
SB-P6	7 - 2&3	I	610
SB-P7	8 - 1&4	I	635
SB-P7	8 - 2&3	I	610
SB-P9	10 - A11	I	660
SB-P10	11 - 1&4	I	635
SB-P10	11 - 2&3	I	610
SB-P11	12 - 1&4	I	635
SB-P11	12 - 2&3	I	610
SB-P13	14 - 1&4	I	635
SB-P13	14 - 2&3	I	610
NB-P1	1 - A11	III	584
NB-P2	3 - 1&4	III	762
NB-P2	3 - 2&3	III	711
NB-P3	4 - 1&4	II	813
NB-P3	4 - 2&3	II	660
NB-P4	5 - 1&4	II	813
NB-P4	5 - 2&3	II	660
NB-P6	7 - 1&4	II	508
NB-P6	7 - 2&3	II	610
NB-P7	8 - 1&4	II	635
NB-P7	8 - 2&3	I	610
NB-P8	9 - 1&4	I	635
NB-P8	9 - 2&3	I	610
NB-P10	11 - 1&4	I	635
NB-P10	11 - 2&3	I	610
NB-P11	12 - 1&4	I	635
NB-P11	12 - 2&3	I	610

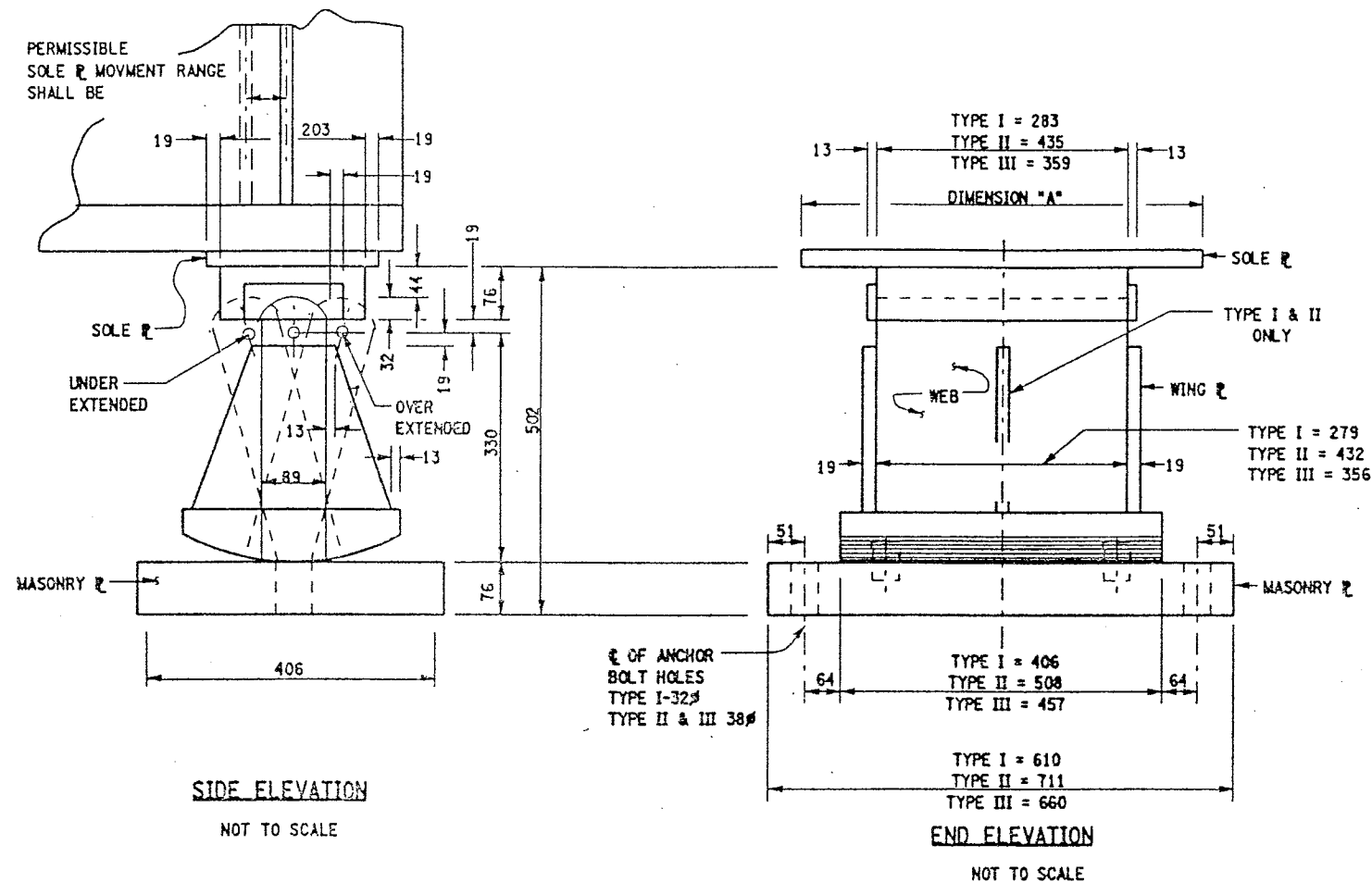
ITEM CLARIFICATION NOTE:

ITEM 589.52NNNM, REMOVAL OF EXISTING STEEL IS A  
SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL  
BE INCORPORATED BY BRIDGE:  
BIN 1093571 SB SHALL USE ITEM 589.520001W  
BIN 1093572 NB SHALL USE ITEM 589.520002W

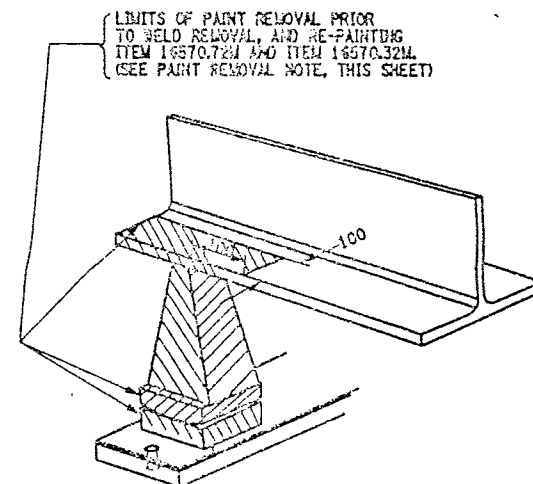
ITEM 571.01NNNM - THE TREATMENT AND DISPOSAL OF PAINT  
REMOVAL WASTE IS A SERIALIZED ITEM AND THE FOLLOWING PAY  
ITEMS SHALL BE INCORPORATED BY BRIDGE:  
BIN 1093571 SB SHALL USE ITEM 571.010001M  
BIN 1093572 NB SHALL USE ITEM 571.010002M

ITEM 570.10NNNNW - ENVIRONMENTAL GROUND PROTECTION  
IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS  
SHALL BE INCORPORATED BY BRIDGE.  
BIN 1093571 SB SHALL USE ITEM 570.090001W  
BIN 1093572 NB SHALL USE ITEM 570.090002W

ITEM 570.09NNNNW - ENVIRONMENTAL WATER PROTECTION  
IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS  
SHALL BE INCORPORATED BY BRIDGE  
BIN 1093571 SB SHALL USE ITEM 570.100001W  
BIN 1093572 NB SHALL USE ITEM 570.100002W



EXISTING HIGH ROCKER EXPANSION BEARING  
BIN 1093571 & BIN 1093572



PAINTE REMOVAL DETAIL

SCALE 1 TO 5

PAINT REMOVAL NOTE:

1. IN CONJUNCTION WITH THE USE OF ITEM 16570.32M AND ITEM 16570.76M, ITEM 571.01NNNNM - TREATMENT & DISPOSAL OF PAINT REMOVAL WASTE AND EITHER ITEM 570.10NNNNM - ENVIRONMENTAL GROUND PROTECTION OR ITEM 570.09NNNNM - ENVIRONMENTAL WATER PROTECTION SHALL ALSO BE INCORPORATED DURING THE PAINT REMOVAL OPERATIONS.
2. ALL NEW PARTS INSTALLED AT THIS LOCATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 15565.4302. THE CONTRACTOR WILL BE PAID FOR A QUANTITY OF ONE FOR ALL NEW MATERIALS AT THIS LOCATION.
3. ALL EXISTING SURFACES SHALL BE CLEANED AND LUBRICATED TO ENSURE FREE MOVEMENT, ITEM 15565.4302M.

LIST OF ITEMS USED:

ITEM 571.010001M - TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE (CM)  
ITEM 571.010002M - TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE (CM)  
ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	350	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.I.N. 1093571 & 1093572	

BRIDGE BEARING RESTORATION NOTES:

1. BRIDGE BEARING RESTORATION ITEM 15565.4302M SHALL INCLUDE ALL DESIGNATED WORK AS PER THE SPECIFICATION.
2. STRUCTURAL LIFTING SHALL BE USED WITH ALL EXPANSION BEARING RESTORATION.
3. IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER SPAN (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARINGS), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN SPECIFICATIONS SECTION 585-STRUCTURAL LIFTING OPERATIONS.
4. BEARING RESTORATION SHALL AS A MINIMUM, AND IN ALL CASES INCLUDE REPLACEMENT OF BRONZE PLATE.
5. FIXED BEARING TO BE CLEANED IN PLACE. DO NOT DISASSEMBLE.
6. ON BINS 1093571 & 1093572, BRIDGE BEARING RESTORATION ITEM 15564.4302M FOR THE HIGH ROCKER BEARINGS SHALL INCLUDE ONLY THOSE BEARINGS SHOWN ON DWG BR-11 WHICH ARE EITHER OVER EXTENDED OR UNDER EXTENDED MORE THAN 5° FROM WHAT SHOULD BE ANTICIPATED FOR THE AMBIENT TEMPERATURE. THOSE EXPANSION BEARINGS WHICH ARE BEING RESTORED SHALL BE RESET TO ORIGINAL SPECIFICATIONS.

JACKING NOTES:

THE METHOD OF LIFTING SHALL BE APPROVED BY THE DEPUTY  
CHIEF ENGINEER (STRUCTURES), DSES, TWO WEEKS PRIOR TO  
THE START OF THE WORK.

NO LIFTING WILL BE ALLOWED UNTIL ALL TEMPORARY SUPPORTS  
ARE SECURED.

WHEN POSSIBLE, THERE WILL BE NO LIVE LOAD DURING LIFTING.

LIFTING SHALL BE CONFINED TO ONE END OF A SPAN AT ANY ONE TIME.

IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER PIER (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARING), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN THE SPECIFICATION SECTION 585-STRUCTURAL LIFTING OPERATIONS.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

**SIGNATURE**

DA: 1.

INTERSTATE 481 SB & NB  
OVER  
CSX RAILROAD  
BEARING RESTORATION DETAILS

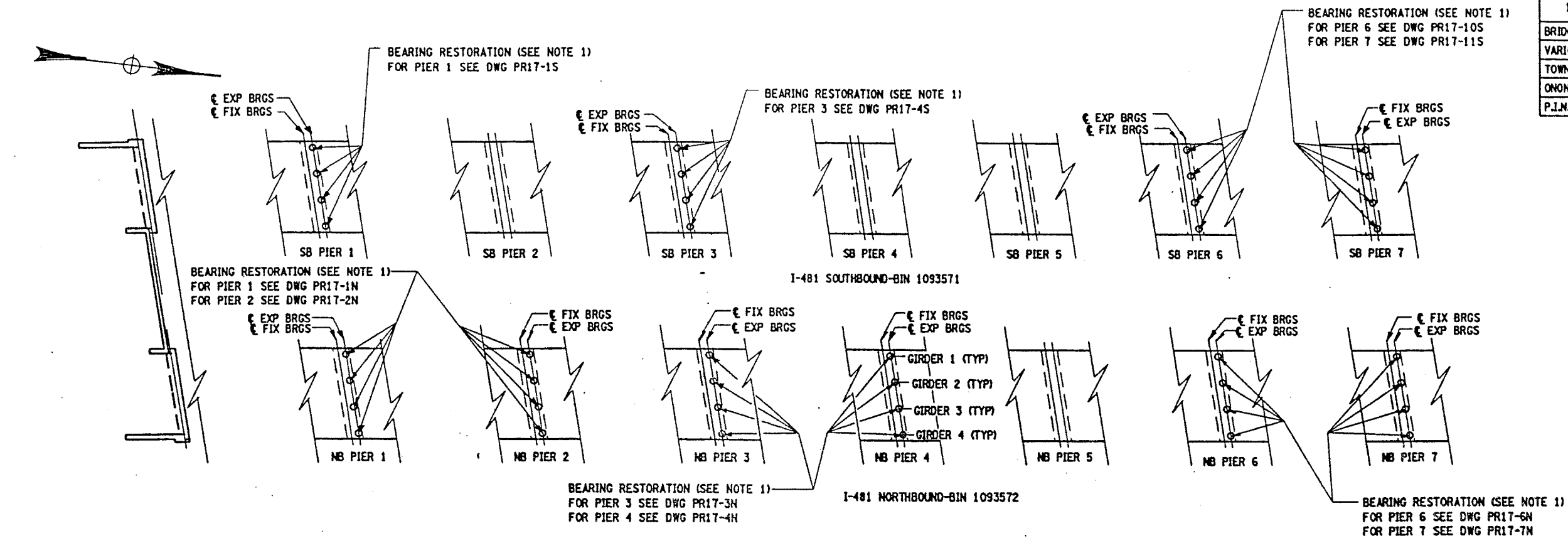
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION



FILENAME	REGION	DATE	DRAWING NO.
305613ZZ.MIA	3	10/02	BR-10

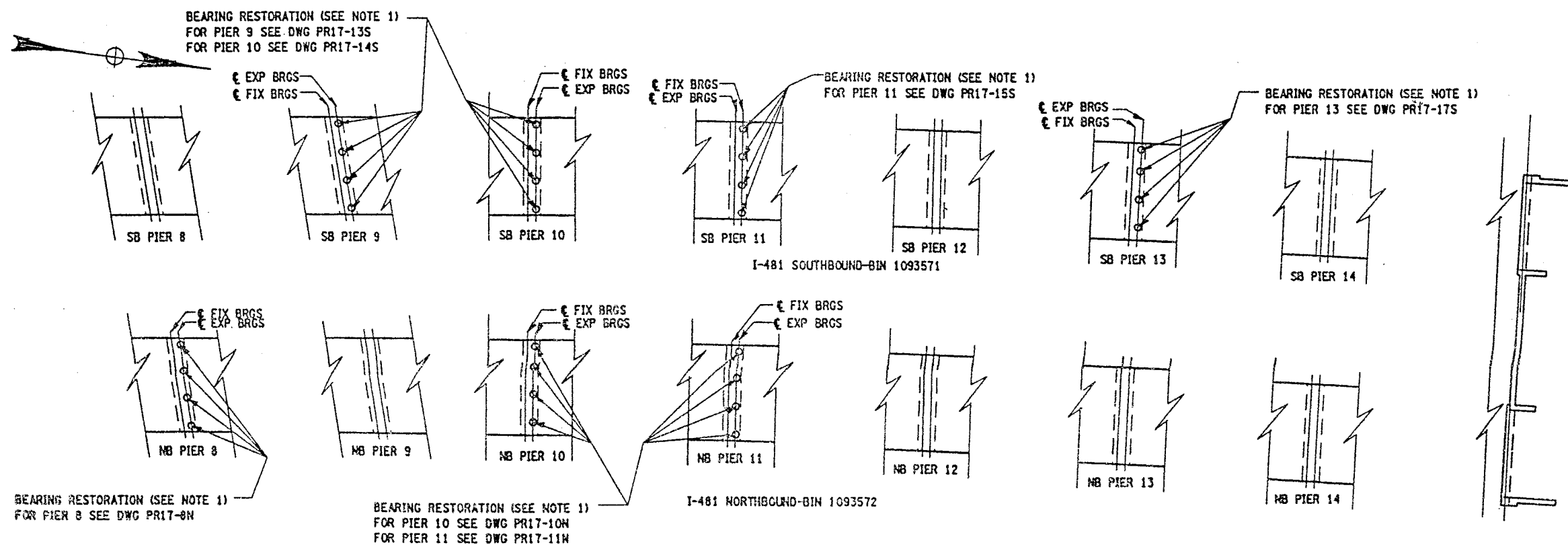


FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	351	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.I.N. 1093571 & 1093572	



## NOTES

1. BRIDGE BEARING RESTORATION ITEM 15565.4302M AND EITHER  
STRUCTURAL LIFTING OPERATION -(TYPE B) ITEM 585.02M OR  
STRUCTURAL LIFTING OPERATION -(TYPE C) ITEM 585.03M



BRIDGE PLAN SCHEMATIC  
SCALE 1:300

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 SB & NB  
OVER  
CSX RAILROAD  
BEARING RESTORATION DETAILS  
BRIDGE PLAN SCHEMATIC

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613ZZ.MIA	3	10/02	BR-11



01330

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	364	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.J.N. ALL BINS	

[illegible]

INFORMATIONAL NOTES:

BIN 1093572

CLEAN EXISTING DRAINAGE SYSTEMS AT OPEN JOINTS (OPEN JOINTS TO REMAIN). AS SHOWN ON CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER.

FOR JOINT DETAILS REFER TO THE FOLLOWING DRAWINGS:

DWG. NO. JD-1 - MODIFIED ARMORED COMPRESSION SEAL JOINT SYSTEM.  
 DWG. NO. JD-24 - ONE-CELL MODULAR JOINT SYSTEM.  
 DWG. NO. JD-25 - TWO-CELL MODULAR JOINT SYSTEM.

LIST OF BRIDGE JOINT ITEMS USED:

```

ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL (m)
ITEM 566.02M - MODULAR EXP. JOINT SYSTEM TWO-CELL (m)
ITEM 567.31M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m)
ITEM 567.32M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m)
ITEM 567.35M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)
ITEM 567.36M - MODIFIED ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)
ITEM 16567.640001M - REPLACE COMPRESSION SEAL FOR EXISTING BRIDGE JOINTS (m)

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### LEGEND

EXISTING JOINT TYPE:

ACJ = ARMORED COMPRESSION JOINT SYSTEM  
MOD = MODULAR JOINT SYSTEM  
MAC = MODIFIED ARMORED COMPRESSION  
SYSTEM (NO HORIZ. ARMORING ANGLE)  
ADA = ARMORED DECK ANGLE  
SS = STRIP SEAL JOINT  
OPEN = OPEN JOINT

PROPOSED JOINT TYPE:

MAC-1 = MOD. ARM./COMP. SEAL JT. SYS. (A-1)  
MAC-2 = MOD. ARM./COMP. SEAL JT. SYS. (A-2)  
MAC-5 = MOD. ARM./COMP. SEAL JT. SYS. (A-5)  
MAC-6 = MOD. ARM./COMP. SEAL JT. SYS. (A-6)  
RCS = REPLACE EXISTING COMPRESSION SEAL  
RADA = REMOVE ARMOR DECK ANGLE  
MOD-1 = MODULAR JT. SYS. (ONE-CELL)  
MOD-2 = MODULAR JT. SYS. (TWO-CELL)

## JOINT BEND LOCATION:

N	=	NO BENDS
CRB	=	CURB LINE
PAV'T	=	PAVEMENT

GENERAL NOTES:

- ALL MEASUREMENTS SHALL BE FIELD VERIFIED.
- CURB TO CURB LENGTHS ARE MEASURED ALONG C OF JOINT.
- MULTIPLE DIMENSIONS ARE SHOWN LOOKING UP-STATION, LEFT TO RIGHT.
- ALL DIMENSIONS ARE SHOWN IN METERS.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

**SIGNATURE**

DATE \_\_\_\_\_

INTERSTATE 481 VARIOUS BRIDGES

BRIDGE JOINT TABLE



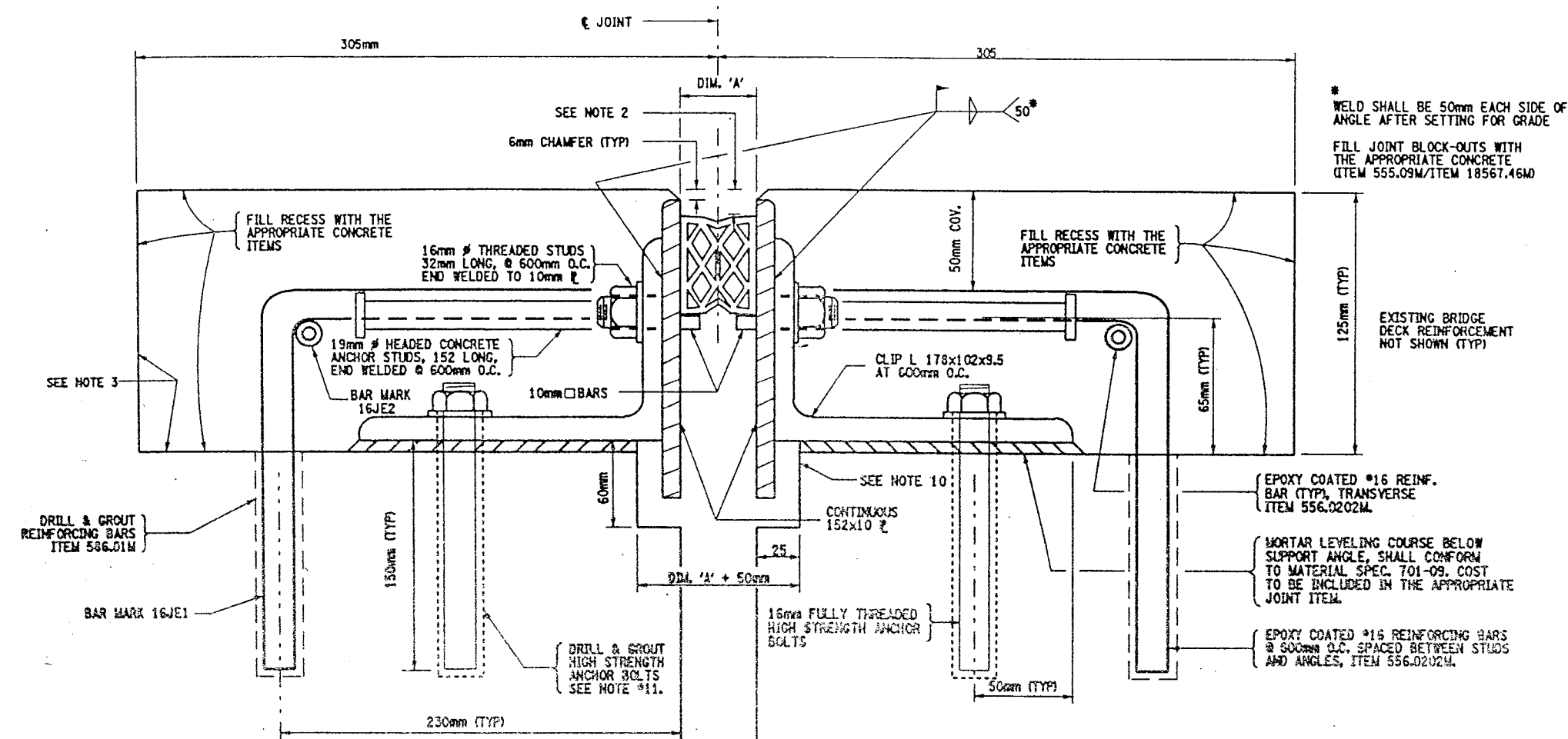
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AJ-JA1	3	10/02	JT-4



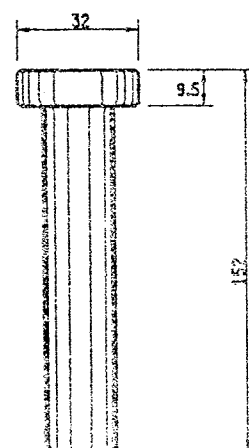
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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	365	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. ALL BIN'S	

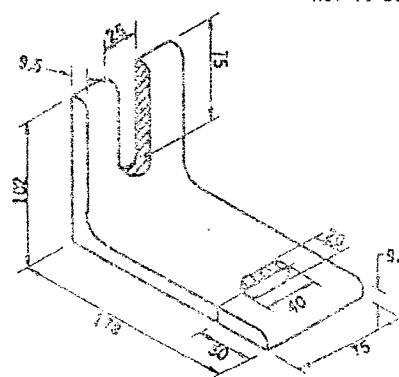


### MODIFIED ARMORED COMPRESSION JOINT DETAIL

FOR INSTALLATION LOCATIONS SEE JOINT TABLE  
NOT TO SCALE



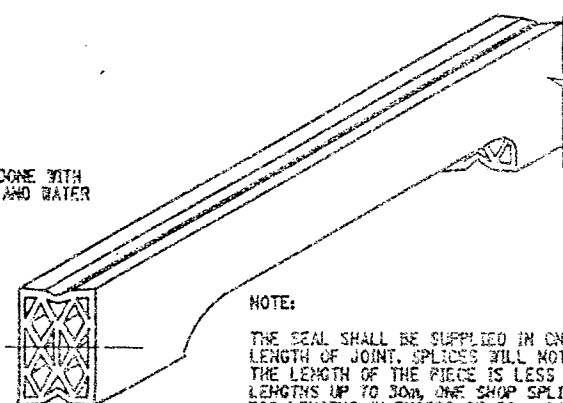
DETAIL OF HEADED CONCRETE ANCHOR STUD  
NOT TO SCALE



DETAIL OF CLIP ANGLE  
NOT TO SCALE

NOTE:  
ALL CUTTING TO BE DONE WITH A COPING SAW, SOAP AND WATER

DO NOT CUT SEAL ABOVE THIS LINE



NOTE:  
THE SEAL SHALL BE SUPPLIED IN ONE PIECE FOR THE FULL LENGTH OF JOINT. SPLICES WILL NOT BE PERMITTED WHEN THE LENGTH OF THE PIECE IS LESS THAN 15m. FOR LENGTHS UP TO 30m, ONE SHOP SPLICE WILL BE PERMITTED. FOR LENGTHS IN EXCESS OF 30m, SHOP SPLICES MAY BE PLACED AT APPROXIMATELY 15m INTERVALS.

DETAIL FOR CUTTING SEAL  
NOT TO SCALE

### EPOXY POLYSULFIDE GROUT NOTE:

CONTRACTOR MAY WITH THE APPROVAL OF THE ENGINEER USE MATERIAL SPECIFICATION 721-03 EPOXY POLYSULFIDE GROUT, AT THE RECESSES, INSTEAD OF THE 12 HOUR CONTINUOUS PREWETTING REQUIREMENTS (PROJECT PROPOSAL). CONTRACTOR MUST ENSURE PROPER CONSTRUCTION PRACTICES ARE FOLLOWED WHEN USING THIS GROUT. THE USE OF EPOXY POLYSULFIDE GROUT SHALL BE AT NO ADDITIONAL COST TO THE STATE.

SEALS (mm)			ARMORED JOINT SYSTEM	
TYPE	NOMINAL WIDTH	DIM. "A" @ 20°C.	TYPE	END CONDITION
1	44	25	A1	Fixed End Only
2	51	30	A2	Exp. up to 18 m
3	64	38	A3	Exp. over 18 m to 23 m
4	76	44	A4	Exp. over 23 m to 27 m
5	89	52	A5	Exp. over 27 m to 38 m
6	102	60	A6	Exp. over 38 m to 46 m

Maximum Skew Limiter: Fixed End - No Limit  
Exp. End - 45° A2 thru A6

### LIST OF ITEMS USED:

ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)  
ITEM 556.0202M - EPOXY COATED BAR REINF. FOR STRUCT. (C)  
ITEM 567.31M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m)  
ITEM 567.32M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m)  
ITEM 567.35M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)  
ITEM 567.36M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)  
ITEM 18567.46M - ELASTOMERIC CONC. FOR BRIDGE JT. SYSTEMS 60  
ITEM 586.01M - DRILL & GROUT REINF. BARS (mm)

### GENERAL NOTES:

1. THE TEMPERATURE OF THE BRIDGE MUST BE TAKEN ON THE STRUCTURAL STEEL SURFACE TO DETERMINE THE TEMPERATURE CORRECTION FOR THE JOINT OPENINGS.
2. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NORMAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6mm NOR MORE THAN 19mm BELOW THE TOP OF THE ROADWAY.
3. RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACE AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE, FOR 12 HOURS. NOTE THE USE OF MATERIAL SPEC. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, SEE INSERT IN PROJECT PROPOSAL.
4. A WATER-TIGHT INTEGRITY TEST SHALL BE PERFORMED BY THE CONTRACTOR AT ALL COMPRESSION SEAL JOINT INSTALLATIONS. THE FOLLOWING TEST PARAMETERS SHALL BE INCORPORATED IN THE TEST:
  1. A 15 MINUTE MINIMUM PERIOD OF STANDING WATER, WITH A 25mm MINIMUM DEPTH SHALL BE USED.
  2. IN ADDITION, IN LOCATIONS OF COPED AREAS OF THE SEAL, BENDS, ETC., WATER PRESSURE SHALL BE APPLIED, TO THE SATISFACTION OF THE EIC FOR A 15 MINUTE PERIOD.
  3. LIMITS OF TEST AREA SHALL BE FROM FACE OF CURB TO FACE OF CURB ON THE DECK SURFACE.
5. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THE JOINT IF, IN THE OPINION OF THE ENGINEER, THE INSTALLED JOINT LEAKS WITHIN THE 15 MINUTE TEST PERIOD.
6. PRIOR TO THE START OF WORK AT EACH JOINT, THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR THE SPECIFICS OF THE TESTING, INCLUDING CONTAINMENT OF THE WATER AND THE METHOD TO BE USED FOR ACCESS BY THE E.I.C. TO THE BOTTOM OF THE JOINT BEING TESTED.
7. THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THE TESTING WHICH INCLUDES, BUT IS NOT LIMITED TO:
  1. A CONTAINMENT SYSTEM FOR THE TEST WATER.
  2. PROVISIONS FOR E.I.C. ACCESS TO THE BOTTOM OF THE JOINT. SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE JOINT ITEMS.
8. THE COST OF ALL LABOR, EQUIPMENT, AND MATERIALS TO INSTALL THE NEW JOINT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT ITEM.
9. MORTAR LEVELING COURSE SHALL CONFORM TO MATERIAL SPECIFICATION 701-09 AND SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE JOINT ITEM.
10. THE DIMENSIONS OF THE REMOVAL AREA UNDER THE 152x10 PLATES ARE SHOWN TO ALLOW SPACE FOR THE PLATES TO REST FREELY. IF THERE IS ALREADY ADEQUATE SPACE, NO CONCRETE REMOVAL OR REPLACEMENT IS REQUIRED IN THIS AREA.
11. 16 mm # ASTM A325M ANCHOR BOLT TO BE DRILLED AND GROUTED IN PLACE IN ACCORDANCE WITH THE REQUIREMENTS OF SUB-SECTION 586-3.02. GROUTING MATERIALS SHALL BE IN ACCORDANCE WITH MATERIALS SUB-SECTION 701-07 ANCHORING MATERIALS-CHEMICALLY CURING. HOLES TO BE DRILLED TO THE DIAMETER AND DEPTH RECOMMENDED BY THE MANUFACTURER OF THE GROUTING MATERIAL Q.M. DEPTH OF 150 mm). THE COST OF THE ANCHORS, INCLUDING DRILLING AND GROUTING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT SYSTEM ITEM.
12. IT IS DESIRABLE TO HAVE THE ARMORED JOINT WITH ITS COMPRESSION SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR INSTALLATION IN ITS PREFORMED RECESS IN THE STRUCTURAL SLAB. IN CASES WHERE THE ARMORED JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS, THE JOINT SHALL BE SEALED WITH THE COMPRESSION SEAL BEFORE THE STRUCTURE IS OPENED TO TRAFFIC INCLUDING CONSTRUCTION TRAFFIC, AND BEFORE DIS CONTINUING OPERATIONS WHEN WORK IS SUSPENDED DURING THE WINTER.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481


### COMPRESSION SEAL JOINT DETAILS

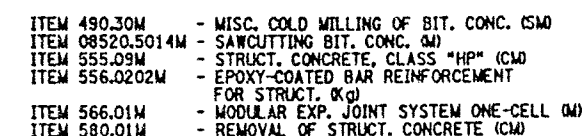


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
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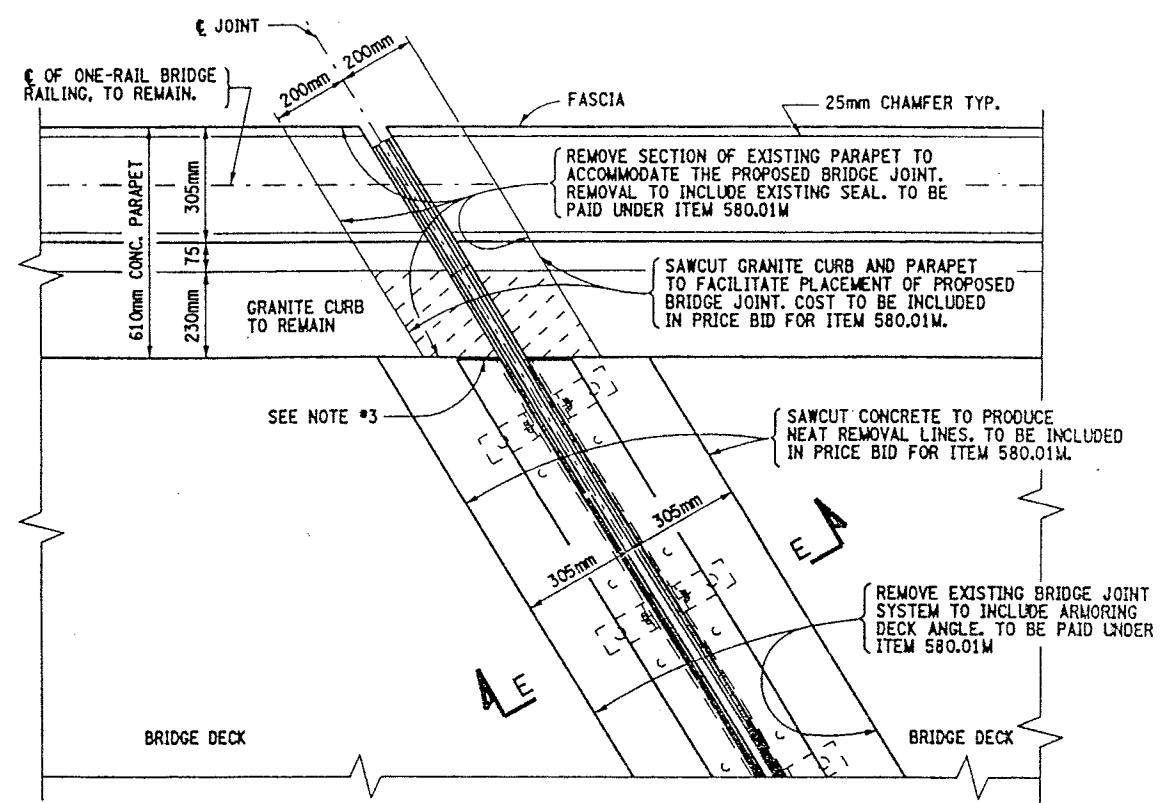


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<p align="center">INTERSTATE 481 SB &amp; NB OVER CSX RAILROAD YARD <b>BRIDGE JOINT DETAILS</b></p>			
<p align="center">   STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION         </p>			
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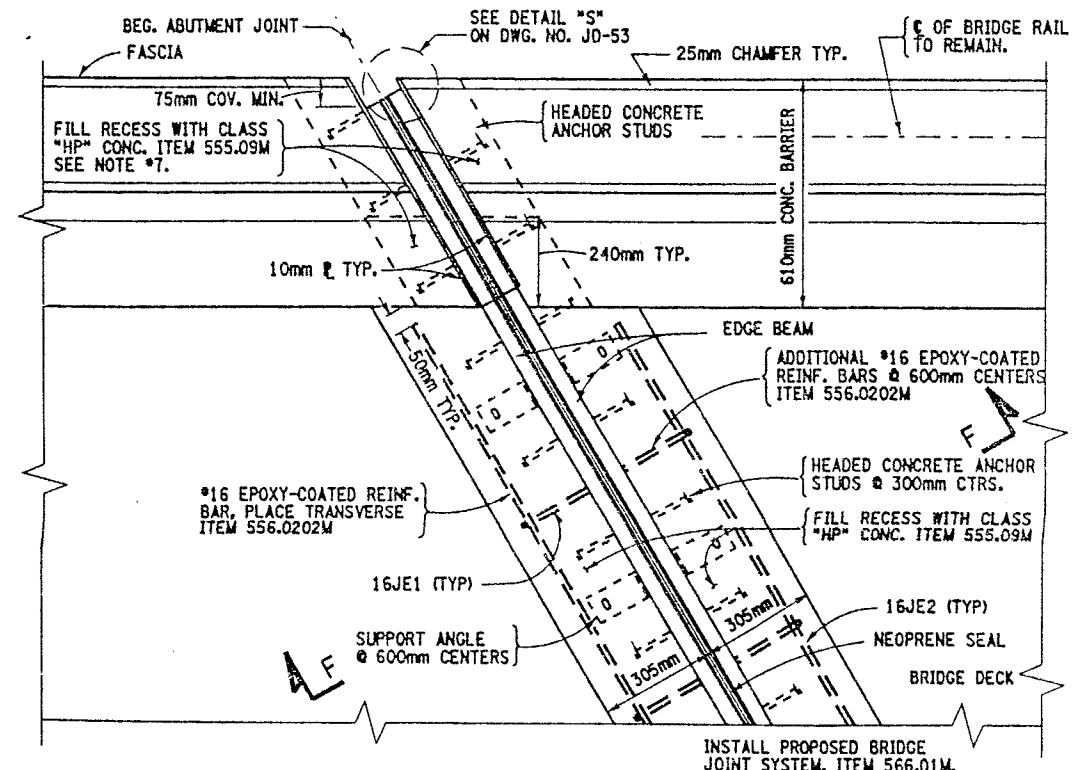




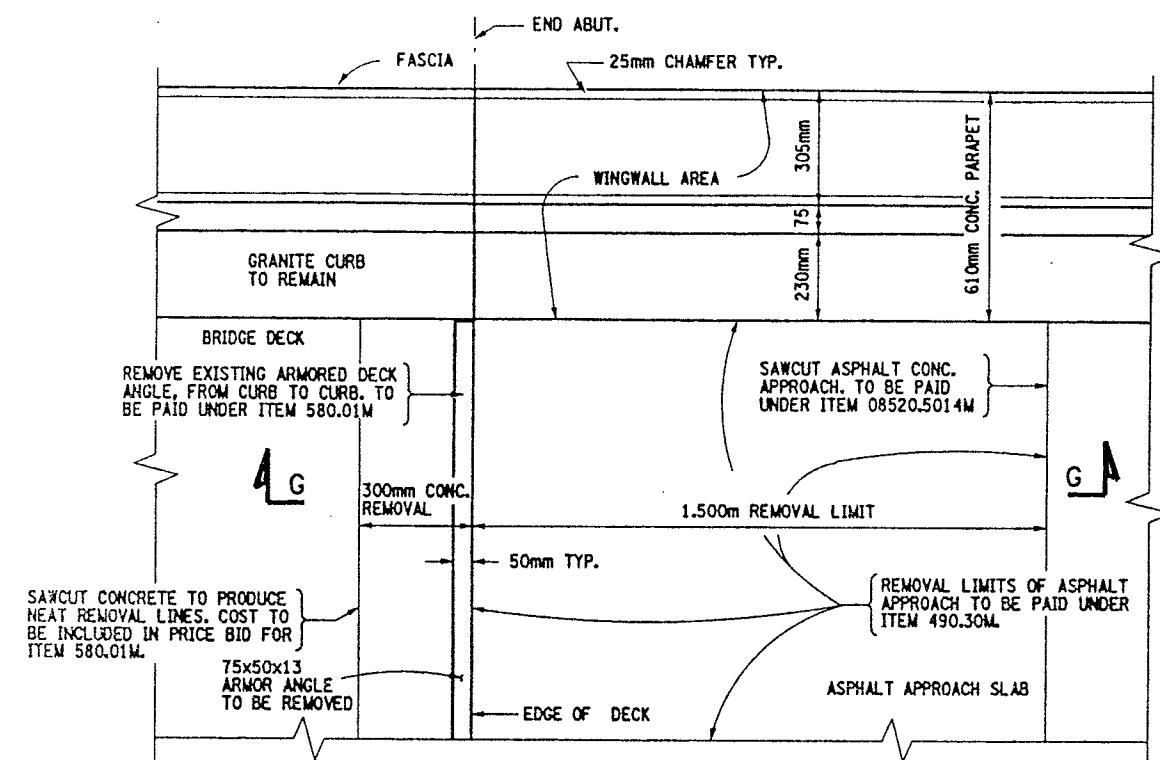
CHECKED BY  
ESTIMATED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



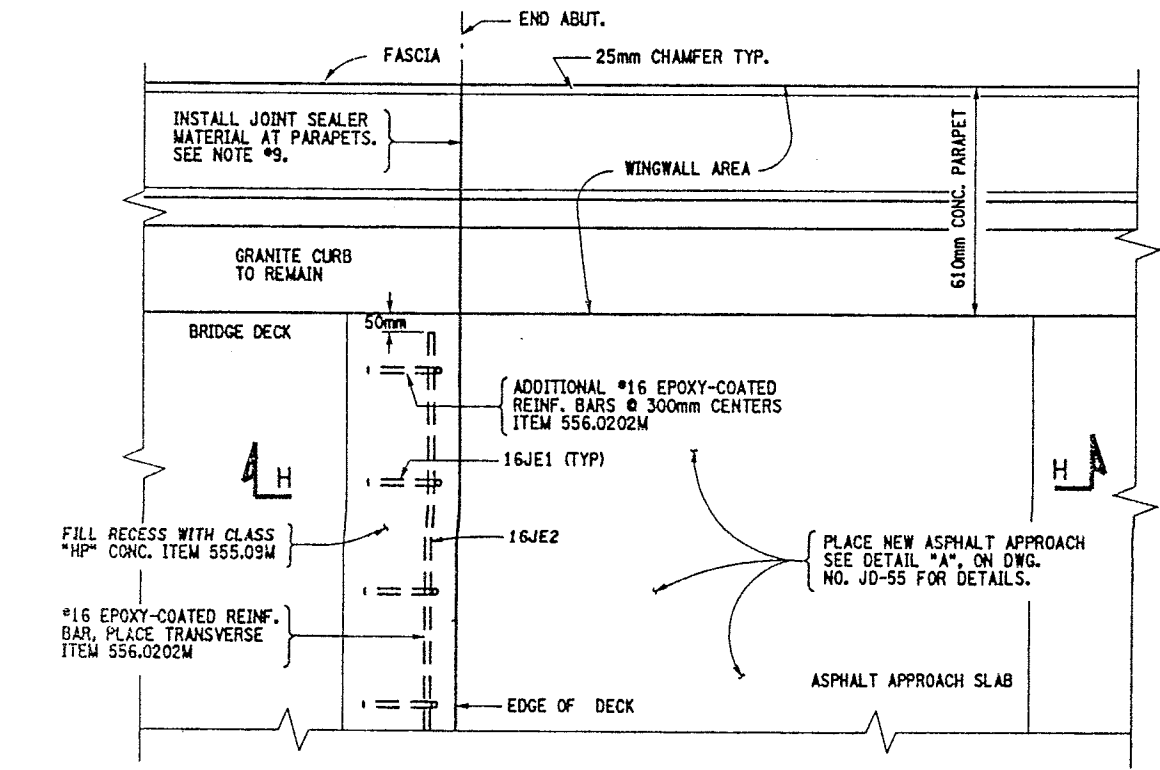
EXISTING PIER JOINT PLAN VIEW  
BIN 1093571 - PIERS 6, 7, 8, 10, 11, 12, 13 & 14  
BIN 1093572 - PIERS 6, 7, 8, 9, 10, 11, 12, 13 & 14  
NOT TO SCALE



PROPOSED PIER JOINT PLAN VIEW  
BIN 1093571 - PIERS 6, 7, 8, 10, 11, 12, 13 & 14  
BIN 1093572 - PIERS 6, 7, 8, 9, 10, 11, 12, 13 & 14  
NOT TO SCALE



EXISTING END ABUTMENT PLAN VIEW  
BIN 1093571 - NORTH ABUTMENT  
BIN 1093572 - NORTH ABUTMENT  
NOT TO SCALE



PROPOSED END ABUTMENT PLAN VIEW  
BIN 1093571 - NORTH ABUTMENT  
BIN 1093572 - NORTH ABUTMENT  
NOT TO SCALE

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	418	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

- NOTES:
- FOR SECTION VIEWS SEE DWG. NO. JD-55 & JD-56.
  - FOR ADDITIONAL INFORMATION REFER TO DWG. NO. JT-3 & JT-4, ALSO SEE ORIGINAL CONTRACT NUMBER FISH 70-7 AND CONTRACT NUMBER D251436 FOR PREVIOUS WORK.
  - THE EXISTING JOINTS AND ARMORING DECK ANGLES BUTT UP TO PARAPET. THE SEAL THRU THE PARAPET IS PLACED SEPARATE.
  - LEFT SIDE OF DECK SHOWN, RIGHT SIDE IDENTICAL.
  - SAW CUTTING OF CONCRETE AND GRANITE CURB SHALL BE INCLUDED IN PRICE BID FOR ITEM 580.01M.
  - REFER TO DWG. NO. JD-24 FOR SINGLE CELL MODULAR JOINT DETAILS AND NOTES.
  - FILL RECESS AT PARAPET WITH CLASS "HP" CONCRETE RESTORE TO ORIGINAL DIMENSIONS.
  - BOTH STRUCTURES HAVE THE FOLLOWING SKEW ANGLES:  
BEGINNING ABUTMENT THROUGH PIER #9 HAVE A SKEW ANGLE OF 8°-43'-42". PIER #10 THROUGH END ABUTMENT HAVE A SKEW ANGLE OF 0°-0'-0".
  - THE INSTALLATION OF NEW JOINT SEALER MATERIAL AT END ABUTMENT PARAPETS SHALL MEET STANDARD SPECIF. 705-06. THE AREA SHALL BE CLEANED PRIOR TO PLACEMENT, TO THE SATISFACTION OF THE ENGINEER. COSTS TO BE INCLUDED IN PRICE BID FOR ITEM 555.09M.

ITEMS USED:

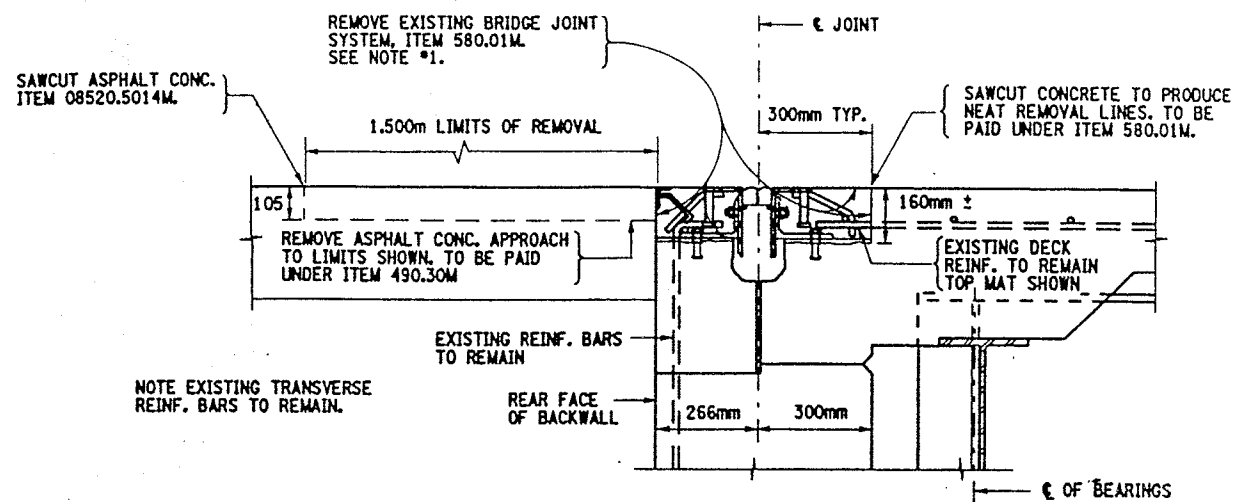
- ITEM 490.30M - MISC. COLD MILLING OF BIT. CONC. (SM)
- ITEM 08520.5014M - SAWCUTTING BIT. CONC. (M)
- ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)
- ITEM 556.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUCT. (KQ)
- ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL (M)
- ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

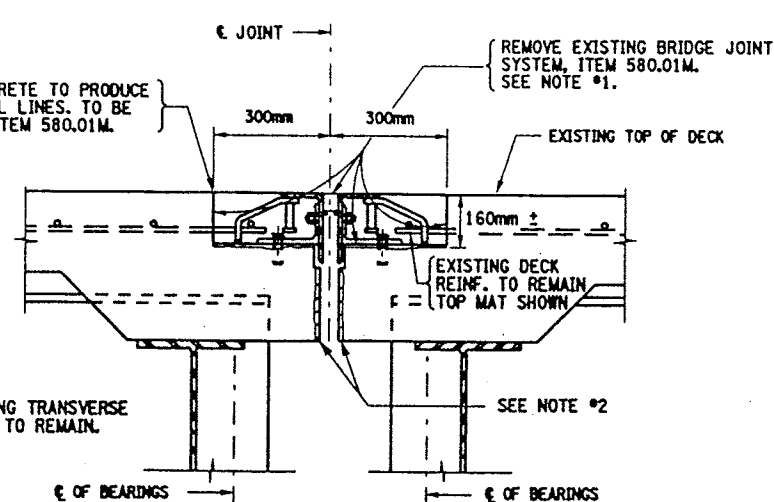
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INTERSTATE 481 NB & SB OVER CSX RAILROAD YARD BRIDGE JOINT DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AJJA1	REGION 3	DATE 10/02	DRAWING NO. JD-54



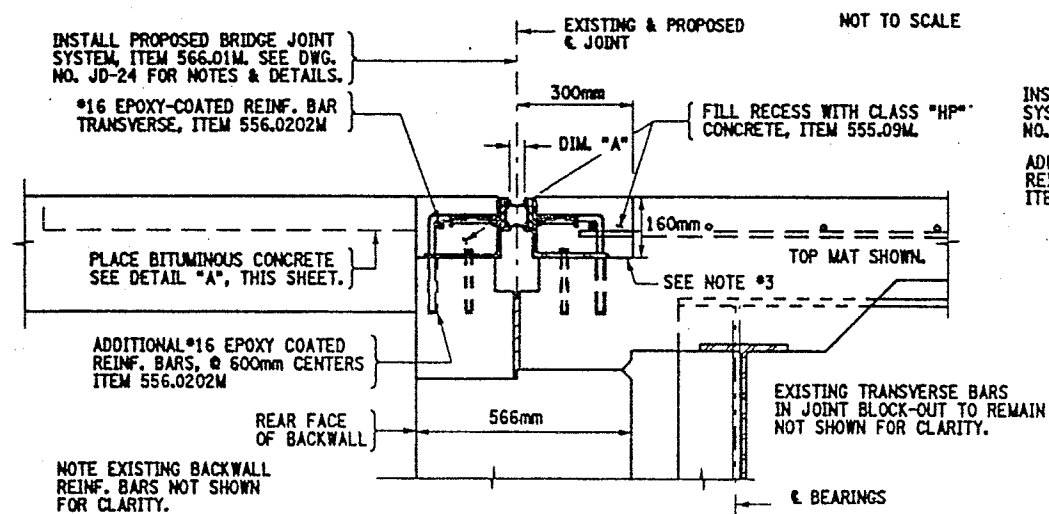
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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



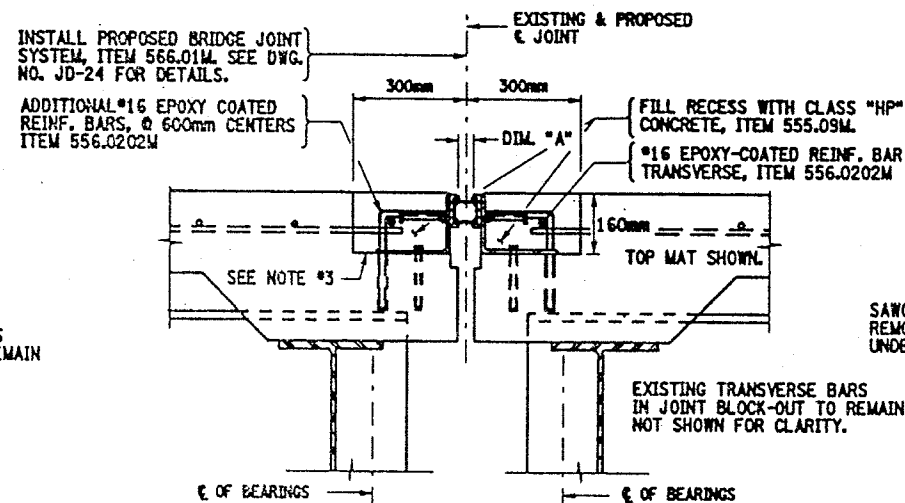
SECTION A-A  
EXISTING BEGINNING ABUTMENT JOINT  
BIN 1093571 - SOUTH ABUT.  
BIN 1093572 - SOUTH ABUT.



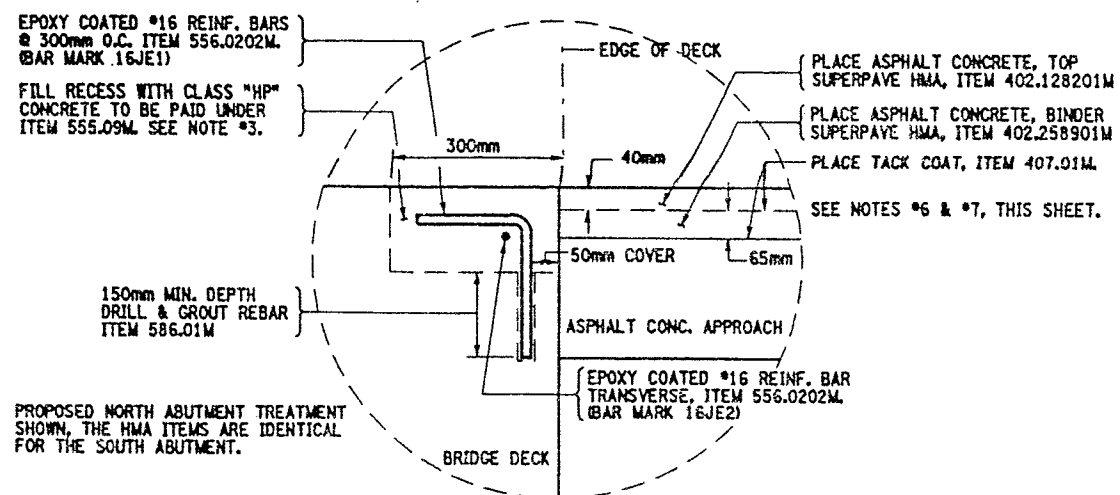
SECTION E-E  
EXISTING PIER JOINT TYPICAL  
BIN 1093571 - PIERS 6, 7, 8, 10, 11, 12, 13 & 14  
BIN 1093572 - PIERS 6, 7, 8, 9, 10, 11, 12, 13 & 14



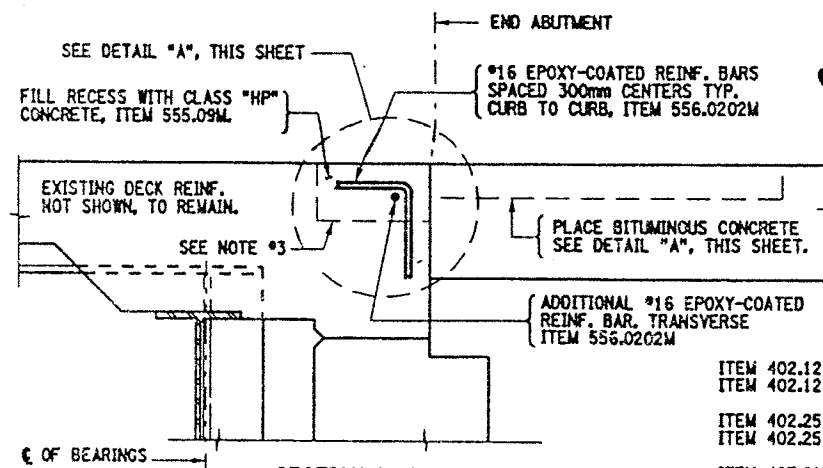
SECTION B-B  
PROPOSED BEGINNING ABUTMENT JOINT  
BIN 1093571 - SOUTH ABUT.  
BIN 1093572 - SOUTH ABUT.  
NOT TO SCALE



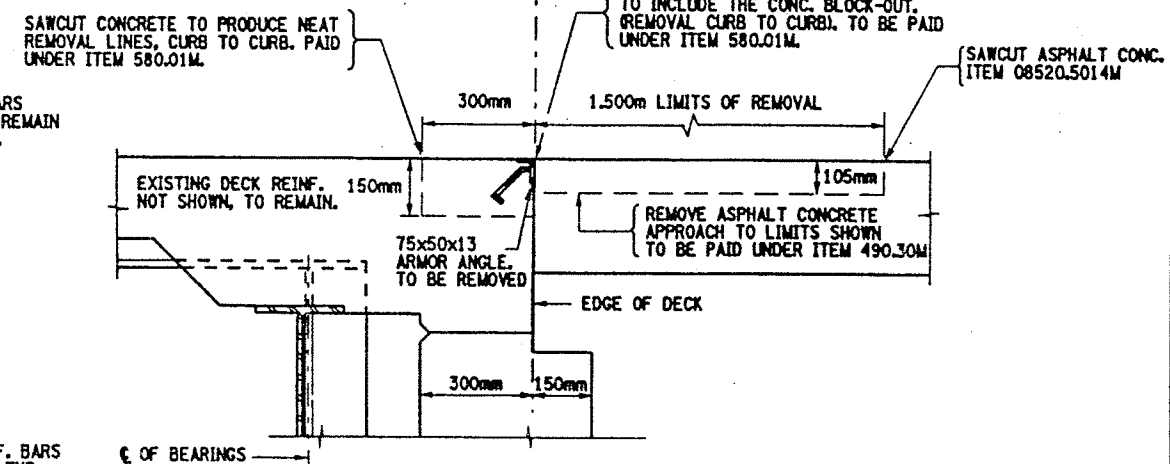
SECTION F-F  
PROPOSED PIER JOINT TYPICAL  
BIN 1093571 - PIERS 6, 7, 8, 10, 11, 12, 13 & 14  
BIN 1093572 - PIERS 6, 7, 8, 9, 10, 11, 12, 13 & 14  
NOT TO SCALE



DETAIL "A"  
NOT TO SCALE



SECTION H-H  
PROPOSED END ABUTMENT JOINT  
BIN 1093571 - NORTH ABUTMENT  
BIN 1093572 - NORTH ABUTMENT  
NOT TO SCALE



SECTION G-G  
EXISTING BEG. ABUTMENT JOINT  
BIN 1093571 - NORTH ABUTMENT  
BIN 1093572 - NORTH ABUTMENT  
NOT TO SCALE

ITEMS USED:

- ITEM 402.128201M - SUPERPAVE HMA F2, 12.5mm (QT)
- ITEM 402.128211M - PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.128201M (QD)
- ITEM 402.258901M - SUPERPAVE HMA F9, 25.0mm (QT)
- ITEM 402.258911M - PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.258901M (QD)
- ITEM 407.01M - TACK COAT (Q)
- ITEM 490.30M - MISC. COLD MILL OF BITUMINOUS CONC. (SM)
- ITEM 08520.5014M - SAWCUTTING BIT. CONC. (Q)
- ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CND)
- ITEM 556.0202M - EPOXY-COATED BAR REINF. FOR STRUCT. (αQ)
- ITEM 566.01M - WOOD. EXP. JOINT SYSTEM ONE-CELL (QD)
- ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CND)
- ITEM 586.01M - DRILL & GROUT REINF. BARS (QMD)

NOTES:

- REMOVAL OF THE EXISTING BRIDGE JOINT SYSTEM TO LIMITS SHOWN OR AS DIRECTED BY ENGINEER. REMOVAL SHALL INCLUDE ANY ARMORING DECK ANGLE AND ANY ADDITIONAL REBAR WHICH IS WELDED TO THE SEGMENT ANGLE AND THE ORIGINAL REINFORCEMENT. COST TO BE INCLUDED IN PRICE BID FOR ITEM 580.01M.
- REMOVAL OF A PORTION OF THE BRIDGE DECK MAY BE NECESSARY TO ALLOW FOR EXPANSION OF BRIDGE. AOB. SEE SECTION VIEW ON DWG. NO. JD-24. COST TO BE INCLUDED IN PRICE BID FOR ITEM 580.01M.
- RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACES AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE FOR 12 HOURS. NOTE, THE USE OF MATERIAL SPECIF. 105-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, (PROJECT PROPOSAL).
- ACTUAL BRIDGE JOINT BLOCK-OUT DIMENSIONS MAY VARY. REMOVAL LIMITS SHALL BE TO EXISTING BLOCK-OUT LOCATIONS, OR AS DIRECTED BY THE ENGINEER.
- PROPOSED PARTIAL PLAN VIEWS, SEE DWG. NO. JD-53 & JD-54.
- ALL SURFACES OF HMA SHALL BE CLEANED AND TACK-COATED PRIOR TO HMA PLACEMENT. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 407.01M.
- ANY USE OF SUPERPAVE HMA ITEMS SHALL INCLUDE THE APPROPRIATE PLANT PRODUCTION QUALITY ADJUSTMENT ITEMS.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	419	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.L.N. 305613		B.I.N. 1093571 & 1093572		

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 NB & SB  
OVER  
CSX RAILROAD YARD  
BRIDGE JOINT DETAILS

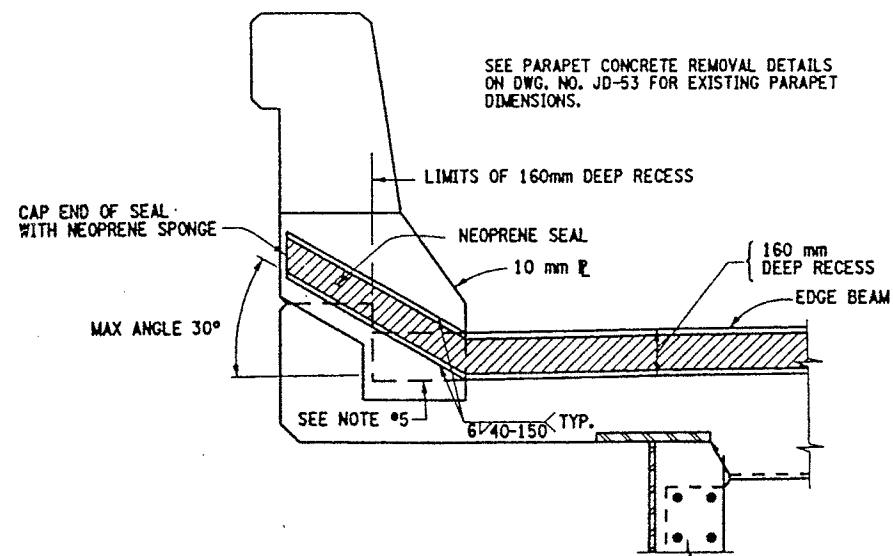


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

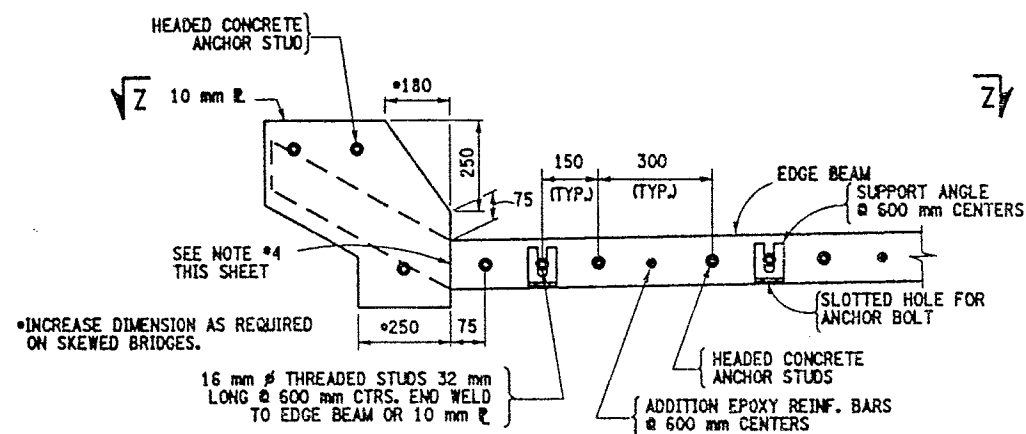
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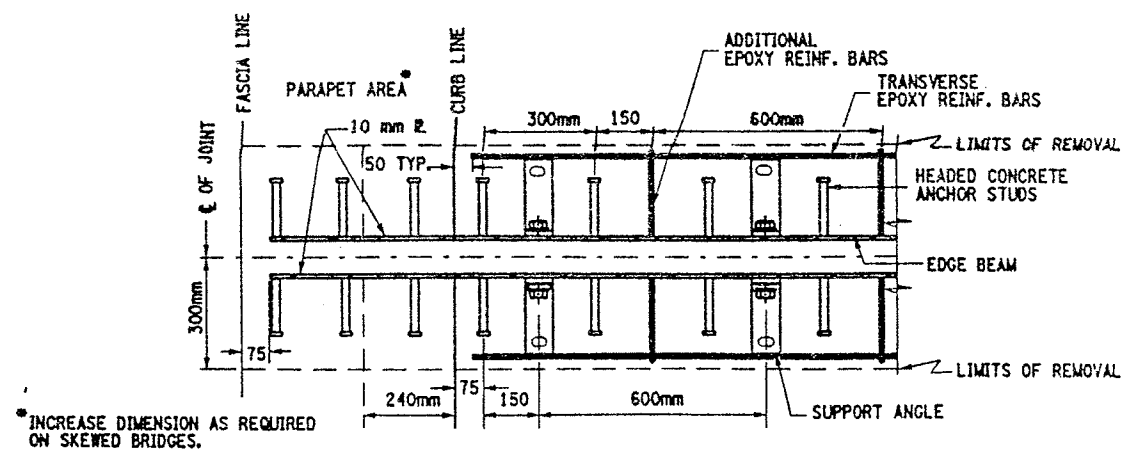
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DRAFTED BY  
ESTIMATED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



PROPOSED SEAL PLACEMENT TYPICAL  
SECTION C-C (CONCRETE TRAFFIC BARRIER)  
NOT TO SCALE

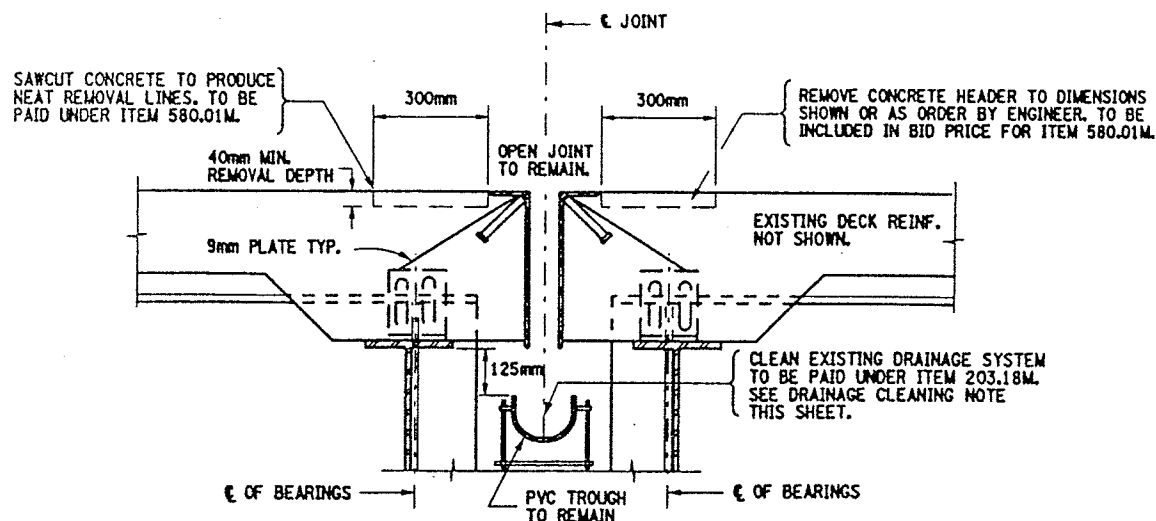


PROPOSED STEEL PLATE TYPICAL  
SECTION D-D (CONCRETE TRAFFIC BARRIER)  
(ONLY THE STEEL SHOWN)  
NOT TO SCALE



PLAN VIEW OF STEEL SECTION Z-Z  
TYPICAL SPACING FOR SINGLE CELL

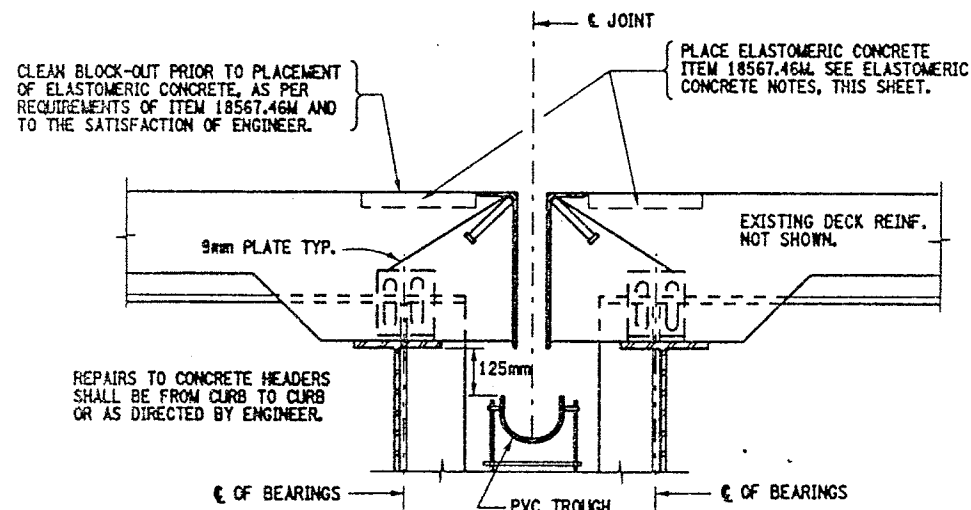
NOT TO SCALE



EXISTING OPEN JOINT AT PIERS  
(REPAIRS TO OPEN JOINT HEADERS)

BIN 1093571 - PIERS 1, 2, & 9  
BIN 1093572 - PIERS 1 & 2

NOT TO SCALE



PROPOSED OPEN JOINT AT PIERS  
(REPAIRS TO OPEN JOINT HEADERS)

BIN 1093571 - PIERS 1, 2, & 9  
BIN 1093572 - PIERS 1 & 2

NOT TO SCALE

#### ITEMS USED:

ITEM 203.18M - CLEAN CLOSED DRAINAGE SYSTEMS (M)  
ITEM 18567.46M - ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS (M)  
ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CM)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	420	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571 & 1093572	

#### NOTES:

- ALL NOTES & DETAILS ON DWG. NO. JD-24 SHALL APPLY.
- REFER TO DWG. NO. JD-53 & JD-54 FOR PROPOSED PARTIAL PLAN VIEWS.
- FOR CALCULATION OF "J" DIMENSION REFER TO DWG. NO. JD-24.
- ALL WELDS SHALL BE GROUND SMOOTH TO THE SATISFACTION OF THE ENGINEER, ON SEAL CONTACT SIDE OF EDGE BEAM.
- RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACES AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE FOR 12 HOURS. NOTE, THE USE OF MATERIAL SPECIF. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED. (PROJECT PROPOSAL).

#### CLEAN DRAINAGE SYSTEM NOTE:

THE FOLLOWING CLOSED DRAINAGE SYSTEMS SHALL BE CLEANED UNDER THIS CONTRACT.

BIN 1093571 - PIERS 1, 2, 3, 4, 5, & 9  
BIN 1093572 - PIERS 1, 2, 3, 4, 5 & 6

NOTE, AT PIER #6 THE TYPE OF BRIDGE JOINT IS AN ARMORED JOINT WITH COMPRESSION SEAL. THE DOWNSPOUTS ARE CONNECTED TO THE BRIDGE SCUPPERS.

THE CLEANING OF THE EXISTING DRAINAGE SYSTEM (ITEM 203.18M) SHALL BE FROM HOPPER (FASCIA GIRDER) TO HOPPER (FASCIA GIRDER) AND SHALL INCLUDE THE PVC TROUGH AND THE ENTIRE DOWNSPOUT SYSTEM (DIA. OF DOWNSPOUTS VARY) FROM HOPPERS TO OUTLET. REFER TO DWG. NO. D017-1 THRU DWG. NO. D017-4 FOR DRAINAGE DETAILS AND PROPOSED MODIFICATIONS TO PIER DOWNSPOUTS.

FOR ESTIMATING THE QUANTITY FOR ITEM 203.18M THE FOLLOWING INFORMATION IS ASSUMED:

BIN 1093571 - PIERS 1, 2, 3, 4, 5, & 9  
(256 METERS TOTAL)

BIN 1093572 - PIERS 1, 2, 3, 4, 5 & 6  
(269 METERS TOTAL)

CONTRACTOR SHALL TAKE CARE WHEN PERFORMING CLEANING OPERATION NOT TO DAMAGE THE EXISTING DRAINAGE SYSTEM. ANY DAMAGE CAUSED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DEEMED NECESSARY BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

#### ELASTOMERIC CONCRETE NOTE:

- AN EXPERIENCED TECHNICAL REPRESENTATIVE EMPLOYED BY THE MANUFACTURER OF THE ELASTOMERIC CONCRETE SHALL BE PRESENT DURING ALL PHASES OF SUBSTRATE PREPARATION AND MATERIAL PLACEMENT.
- THE WATERTIGHT INTEGRITY TEST SHALL NOT BE REQUIRED FOR THE OPEN JOINT HEADER REPAIRS, WHERE ELASTOMERIC CONCRETE (ITEM 18567.46M) IS USED, FOR THESE TWO STRUCTURES ONLY.
- THE REMOVAL DIMENSIONS MAY BE ADJUSTED TO ENSURE THAT ALL DETERIORATED CONCRETE ADJACENT TO THE JOINT AREA IS ENCOMPASS. ABOVE.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 NB & SB OVER CSX RAILROAD YARD BRIDGE JOINT DETAILS	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AJ.JA1	REGION 3
DATE 10/02	DRAWING NO. JD-56



# Asbestos Sampling Survey

Location:

BIN 1-09357-2

Interstate Route 481 North Bound over Conrail

Prepared for:

New York State

Department of Transportation

PIN 3804.00.101

LaBella Project No. 97132

May, 1998



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Figures and Table



## **I. Project Summary**

In accordance with conditions of Term Agreement D010010, LaBella Associates, P.C. conducted an asbestos sampling survey of the Interstate Route 481 North Bound Bridge over Conrail. Based on laboratory analyses of bulk samples collected, the following materials were determined to contain asbestos:

### **BIN 1-09357-2 Interstate Route 481 North Bound over Conrail**

<b>Type of Material</b>	<b>Estimated Amount</b>
Sheet Packing	7 Square Meters
Caulking Compound	45.7 Linear Meters

## **II. Site Description**

The Site is located in Onondaga County, New York. For the purpose of this report, the Site consists of the Interstate Route 481 North Bound Bridge over Conrail (See attached FIGURE 1 - Site Location Map).

## **III. Inspection Procedures**

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 3 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints which might affect the removal of the ACM were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by EMSL Analytical, Inc. or New York Testing Laboratories, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. A drawing of the structure at the Site was created, in order to show sample locations and the approximate locations and amounts of confirmed ACM observed in accessible locations.



Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Actual sample locations are shown in the attached FIGURE 2. Results of bulk sample analyses are tabulated in the attached TABLE.

## **IV. Results**

### **BIN 1-09357-2 Interstate Route 481 North Bound over Conrail**

#### **Sheet Packing**

Asbestos-containing sheet packing is located between the tops of the abutments and the deck slab at both ends of the bridge. Most of this material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations.

It is estimated that the total amount of this asbestos-containing sheet packing material on the bridge is approximately 7 square meters. This estimate is based on field measurements taken at the time of the site visit.

The approximate locations of this asbestos-containing sheet packing are shown in FIGURE 2.

#### **Caulking Compound**

Asbestos-containing caulking compound is located around some of the guide rail base plates on both parapets on the bridge. It is estimated that the total amount of this caulking compound is approximately 45.7 linear meters. This estimate is based on field measurements taken at the time of the site visit.

The approximate locations of this material are shown in the attached FIGURE 2. Analytical results of bulk samples collected are summarized in the attached TABLE.

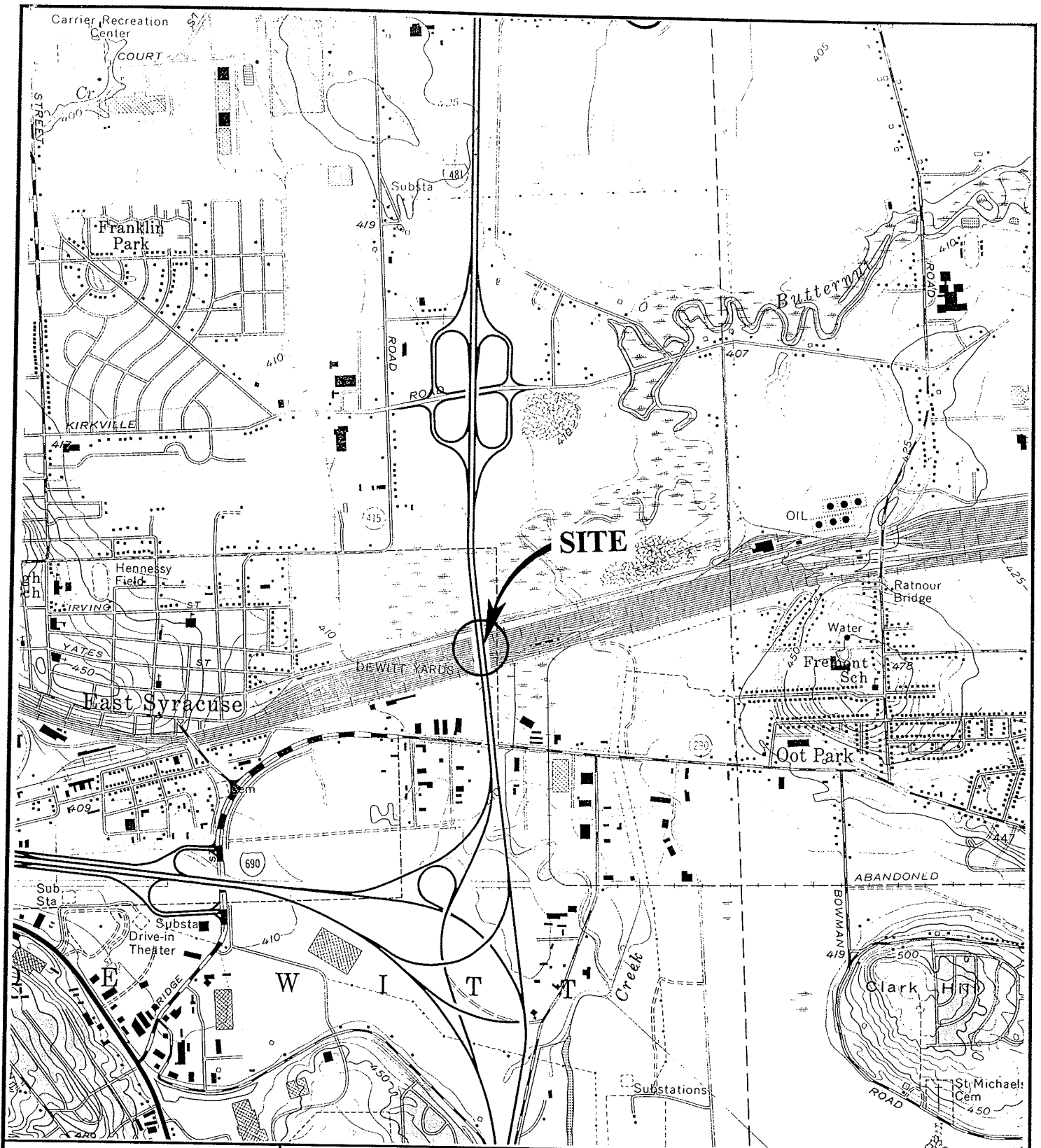
## **Certification**

LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.



# Figures & Table





SCALE: 1" = 2000'

# **FIGURE 1** **Site Location Map**

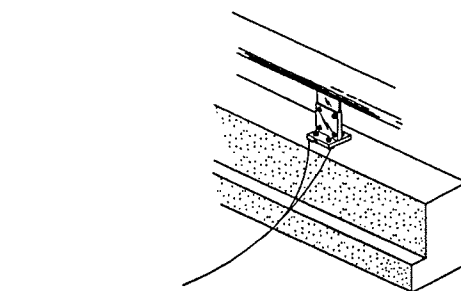
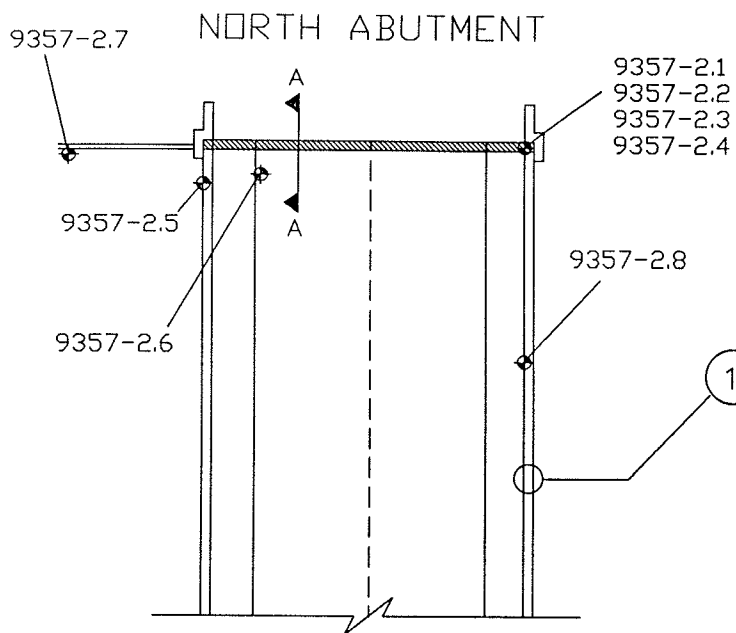
**I-481 NORTH  
BOUND OVER  
CONRAIL**

**BIN 1-09357-2**

**ABELLA**

PROJECT NO. 97132

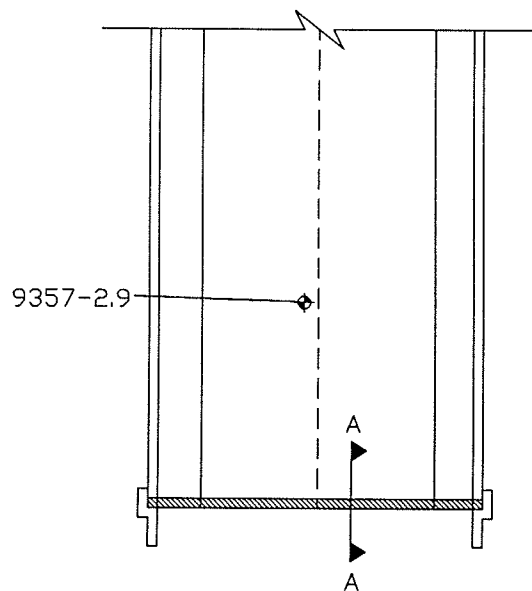




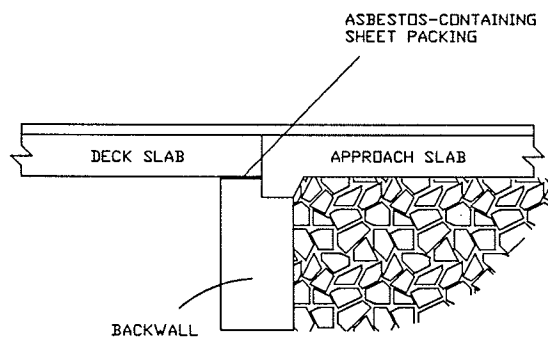
TYPICAL RAILING/  
PARAPET DETAIL

SPOTTY APPLICATION OF  
ASBESTOS-CONTAINING CAULKING  
COMPOUND AROUND SOME  
GUIDE RAIL BASE PLATES

I-481 NORTH BOUND  
BIN 1-09357-2



SOUTH ABUTMENT



SECTION A-A

## LEGEND

◆ 9357-2.1 SAMPLE LOCATION

▨ ASBESTOS-CONTAINING  
SHEET PACKING



PROJECT TITLE: ASBESTOS SAMPLING SURVEY  
16 BRIDGES,  
ONONDAGA COUNTY, NEW YORK

FIGURE 2: I-481 NORTH BOUND  
OVER CONRAIL  
BIN 1-09357-2  
SAMPLE LOCATIONS AND CONFIRMED ACM

PROJECT NO. 97132

PIN 3804.00.101

NOT TO SCALE

DATE: MAY, 1998



# Bulk Sample Results Table

Asbestos Sampling Survey  
 BIN 1-09357-2  
 Interstate Route 481 North Bound over Conrail  
 Onondaga County, New York  
 LaBella Project # 97132  
 PIN 3804.00.101

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material	Specification Item No.
9357-2.1	North End of Bridge Between Deck & Abutment	Sheet Packing	32 % Chrysotile	7 Square Meters	15202.0627 (M)
9357-2.2	North End of Bridge Between Deck & Wing Wall	Joint Filler	None Detected	N/A	N/A
9357-2.3	North End of Bridge Beneath Bearing	Bearing Pad	None Detected	N/A	N/A
9357-2.4	North End of Bridge on Abutment	Masonry Coating	None Detected	N/A	N/A
9357-2.5	North End of Bridge, on West I-Beam	Green Paint	None Detected	N/A	N/A
9357-2.6	North End of Bridge, on Inside I-Beam	Green Paint	None Detected	N/A	N/A
9357-2.7	North End of Bridge at Joint & Retaining Wall	Caulking Compound	None Detected	N/A	N/A
9357-2.8	North End of Bridge at Base of Guide Rail	Gray Caulking Compound	4 % Chrysotile	45.7 Linear Meters	15202.0629 (M)
9357-2.9	North End of Bridge on Ground Below 2 <sup>nd</sup> Span	Green Paint	None Detected	N/A	N/A